









EO1

\*\*\*\*\*  
: TEST 1 0 0 SHIFTED BY 0 = 0 0 PS = 4  
: \*\*\*\*\*

001046	010701			SCOPE		
001050	012700	000000		MOV	80,XD	;LOAD RD WITH 0
001054	012701	000000		MOV	80,XD!1	;LOAD RD!1 WITH 0
001058	000241			CLC		
001062	073027	000000		ASHC	80,XD	;SHIFT RD,RO!1 BY 0
001066	013767	177776	013654	MOV	84,PS,PSM	;SAVE PS
001074	122767	000004	013646	CMPB	84,PSM	;IS THE PS 4?
001102	001401			BEG	.+4	
001104	000000			HLT		;THE PS IS NOT EQUAL TO 4
001106	022700	000000		CMP	80,XD	;IS THE RESULT 0?
001112	001401			BEG	.+4	
001114	000000			HLT		;RD IS NOT EQUAL TO 0
001116	022701	000000		CMP	80,XD!1	;IS THE RESULT 0?
001122	001401			BEG	.+4	
001124	000000			HLT		;RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
: TEST 2 0 0 SHIFTED BY -32. = 0 0 PS = 4  
: \*\*\*\*\*

001126	010701			SCOPE		
001130	012700	000000		MOV	80,XD	;LOAD RD WITH 0
001134	012701	000000		MOV	80,XD!1	;LOAD RD!1 WITH 0
001140	000241			CLC		
001142	073027	177740		ASHC	8-32,XD	;SHIFT RD,RO!1 BY -32.
001146	013767	177776	013574	MOV	84,PS,PSM	;SAVE PS
001154	122767	000004	013566	CMPB	84,PSM	;IS THE PS 4?
001162	001401			BEG	.+4	
001164	000000			HLT		;THE PS IS NOT EQUAL TO 4
001166	022700	000000		CMP	80,XD	;IS THE RESULT 0?
001172	001401			BEG	.+4	
001174	000000			HLT		;RD IS NOT EQUAL TO 0
001176	022701	000000		CMP	80,XD!1	;IS THE RESULT 0?
001202	001401			BEG	.+4	
001204	000000			HLT		;RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 3 0 0 SHIFTED BY 32. = 0 0 PS = 4  
\*\*\*\*\*

001206	010701			SCOPE		
001210	012700	000000		MOV	80,XD	:LOAD RD WITH 0
001214	012701	000000		MOV	80,XD!1	:LOAD RD!1 WITH 0
001220	000241			CLC		
001222	073027	000040		ASHC	832,XD	:SHIFT RD,RO!1 BY 32.
001226	013767	177776	013514	MOV	84PS,PSW	:SAVE PS
001234	122767	000004	013506	CHPB	84,PSW	:IS THE PS 4?
001242	001401			BEQ	+.4	
001244	000000			HLT		:THE PS IS NOT EQUAL TO 4
001246	022700	000000		CHP	80,XD	:IS THE RESULT 0?
001252	001401			BEQ	+.4	
001254	000000			HLT		:RD IS NOT EQUAL TO 0
001256	022701	000000		CHP	80,XD!1	:IS THE RESULT 0?
001262	001401			BEQ	+.4	
001264	000000			HLT		:RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 4 0 1 SHIFTED BY 0 = 0 1 PS = 0  
\*\*\*\*\*

001266	010701			SCOPE		
001270	012700	000000		MOV	80,XD	:LOAD RD WITH 0
001274	012701	000001		MOV	81,XD!1	:LOAD RD!1 WITH 1
001300	000241			CLC		
001302	073027	000000		ASHC	80,XD	:SHIFT RD,RO!1 BY 0
001306	013767	177776	013434	MOV	84PS,PSW	:SAVE PS
001314	122767	000000	013426	CHPB	80,PSW	:IS THE PS 0?
001322	001401			BEQ	+.4	
001324	000000			HLT		:THE PS IS NOT EQUAL TO 0
001326	022700	000000		CHP	80,XD	:IS THE RESULT 0?
001332	001401			BEQ	+.4	
001334	000000			HLT		:RD IS NOT EQUAL TO 0
001336	022701	000001		CHP	81,XD!1	:IS THE RESULT 1?
001342	001401			BEQ	+.4	
001344	000000			HLT		:RD!1 IS NOT EQUAL TO 1

\*\*\*\*\*  
:TEST 5 0 1 SHIFTED BY 1 = 0 2 PS = 0  
\*\*\*\*\*

001346	010701			SCOPE		
001350	012700	000000		MOV	80,X0	:LOAD R0 WITH 0
001354	012701	000001		MOV	81,X0!1	:LOAD R0!1 WITH 1
001360	000241			CLC		
001362	073027	000001		ASHC	81,X0	:SHIFT R0,R0!1 BY 1
001366	013767	177776	013354	MOV	80,PS,PSW	:SAVE PS
001374	122767	000000	013346	CHPB	80,PSW	:IS THE PS 0?
001402	001401			BEG	.+4	
001404	000000			HLT		:THE PS IS NOT EQUAL TO 0
001406	022700	000000		CHP	80,X0	:IS THE RESULT 0?
001412	001401			BEG	.+4	
001414	000000			HLT		:R0 IS NOT EQUAL TO 0
001416	022701	000002		CHP	82,X0!1	:IS THE RESULT 2?
001422	001401			BEG	.+4	
001424	000000			HLT		:R0!1 IS NOT EQUAL TO 2

\*\*\*\*\*  
:TEST 6 0 1 SHIFTED BY 2 = 0 4 PS = 0  
\*\*\*\*\*

001426	010701			SCOPE		
001430	012700	000000		MOV	80,X0	:LOAD R0 WITH 0
001434	012701	000001		MOV	81,X0!1	:LOAD R0!1 WITH 1
001440	000241			CLC		
001442	073027	000002		ASHC	82,X0	:SHIFT R0,R0!1 BY 2
001446	013767	177776	013274	MOV	80,PS,PSW	:SAVE PS
001454	122767	000000	013266	CHPB	80,PSW	:IS THE PS 0?
001462	001401			BEG	.+4	
001464	000000			HLT		:THE PS IS NOT EQUAL TO 0
001466	022700	000000		CHP	80,X0	:IS THE RESULT 0?
001472	001401			BEG	.+4	
001474	000000			HLT		:R0 IS NOT EQUAL TO 0
001476	022701	000004		CHP	84,X0!1	:IS THE RESULT 4?
001502	001401			BEG	.+4	
001504	000000			HLT		:R0!1 IS NOT EQUAL TO 4

\*\*\*\*\*  
:TEST 7 0 1 SHIFTED BY 3 = 0 10 PS = 0  
\*\*\*\*\*

001506	010701			SCOPE		
001510	012700	000000		MOV	80,X0	:LOAD R0 WITH 0
001514	012701	000001		MOV	81,X0!1	:LOAD R0!1 WITH 1
001520	000241			CLC		
001522	073027	000003		ASHC	83,X0	:SHIFT R0,R0!1 BY 3
001526	013767	177776	013214	MOV	80,PS	:SAVE PS
001534	122767	000000	013206	CMPB	80,PS	:IS THE PS 0?
001542	001401			BEQ	+.4	
001544	000000			HLT		:THE PS IS NOT EQUAL TO 0
001546	022700	000000		CMP	80,X0	:IS THE RESULT 0?
001552	001401			BEQ	+.4	
001554	000000			HLT		:R0 IS NOT EQUAL TO 0
001556	022701	000010		CMP	810,X0!1	:IS THE RESULT 10?
001562	001401			BEQ	+.4	
001564	000000			HLT		:R0!1 IS NOT EQUAL TO 10

\*\*\*\*\*  
:TEST 10 0 1 SHIFTED BY 4 = 0 20 PS = 0  
\*\*\*\*\*

001566	010701			SCOPE		
001570	012700	000000		MOV	80,X0	:LOAD R0 WITH 0
001574	012701	000001		MOV	81,X0!1	:LOAD R0!1 WITH 1
001600	000241			CLC		
001602	073027	000004		ASHC	84,X0	:SHIFT R0,R0!1 BY 4
001606	013767	177776	013134	MOV	80,PS	:SAVE PS
001614	122767	000000	013126	CMPB	80,PS	:IS THE PS 0?
001622	001401			BEQ	+.4	
001624	000000			HLT		:THE PS IS NOT EQUAL TO 0
001626	022700	000000		CMP	80,X0	:IS THE RESULT 0?
001632	001401			BEQ	+.4	
001634	000000			HLT		:R0 IS NOT EQUAL TO 0
001636	022701	000020		CMP	820,X0!1	:IS THE RESULT 20?
001642	001401			BEQ	+.4	
001644	000000			HLT		:R0!1 IS NOT EQUAL TO 20

\*\*\*\*\*  
:TEST 11 0 1 SHIFTED BY 5 = 0 40 PS = 0  
\*\*\*\*\*

001646	010701			SCOPE		
001650	012700	000000		MOV	80,X0	:LOAD R0 WITH 0
001654	012701	000001		MOV	81,X0!1	:LOAD R0!1 WITH 1
001660	000241			CLC		
001662	073027	000005		ASHC	85,X0	:SHIFT R0,R0!1 BY 5
001666	013767	177776	013054	MOV	28PS,PSH	:SAVE PS
001674	122767	000000	013046	CHPB	80,PSH	:IS THE PS 0?
001702	001401			BEQ	+.4	
001704	000000			HLT		:THE PS IS NOT EQUAL TO 0
001706	022700	000000		CHP	80,X0	:IS THE RESULT 0?
001712	001401			BEQ	+.4	
001714	000000			HLT		:R0 IS NOT EQUAL TO 0
001716	022701	000040		CHP	840,X0!1	:IS THE RESULT 40?
001722	001401			BEQ	+.4	
001724	000000			HLT		:R0!1 IS NOT EQUAL TO 40

\*\*\*\*\*  
:TEST 12 0 1 SHIFTED BY 6 = 0 100 PS = 0  
\*\*\*\*\*

001726	010701			SCOPE		
001730	012700	000000		MOV	80,X0	:LOAD R0 WITH 0
001734	012701	000001		MOV	81,X0!1	:LOAD R0!1 WITH 1
001740	000241			CLC		
001742	073027	000006		ASHC	86,X0	:SHIFT R0,R0!1 BY 6
001746	013767	177776	012774	MOV	28PS,PSH	:SAVE PS
001754	122767	000000	012766	CHPB	80,PSH	:IS THE PS 0?
001762	001401			BEQ	+.4	
001764	000000			HLT		:THE PS IS NOT EQUAL TO 0
001766	022700	000000		CHP	80,X0	:IS THE RESULT 0?
001772	001401			BEQ	+.4	
001774	000000			HLT		:R0 IS NOT EQUAL TO 0
001776	022701	000100		CHP	8100,X0!1	:IS THE RESULT 100?
002002	001401			BEQ	+.4	
002004	000000			HLT		:R0!1 IS NOT EQUAL TO 100

K01

\*\*\*\*\*  
:TEST 13 0 1 SHIFTED BY 7 = 0 200 PS = 0  
\*\*\*\*\*

002006	010701			SCOPE		
002010	012700	000000		MOV	80,XD	:LOAD RD WITH 0
002014	012701	000001		MOV	81,XD!1	:LOAD RD!1 WITH 1
002020	000241			CLC		
002022	073027	000007		ASHC	87,XD	:SHIFT RD,RO!1 BY 7
002026	013767	177776	012714	MOV	28PS,PSW	:SAVE PS
002034	122767	000000	012706	CHPB	80,PSW	:IS THE PS 0?
002042	001401			BEG	+.4	
002044	000000			HLT		:THE PS IS NOT EQUAL TO 0
002046	022700	000000		CHP	80,XD	:IS THE RESULT 0?
002052	001401			BEG	+.4	
002054	000000			HLT		:RD IS NOT EQUAL TO 0
002056	022701	000200		CHP	8200,XD!1	:IS THE RESULT 200?
002062	001401			BEG	+.4	
002064	000000			HLT		:RO!1 IS NOT EQUAL TO 200

\*\*\*\*\*  
:TEST 14 0 1 SHIFTED BY 10 = 0 400 PS = 0  
\*\*\*\*\*

002066	010701			SCOPE		
002070	012700	000000		MOV	80,XD	:LOAD RD WITH 0
002074	012701	000001		MOV	81,XD!1	:LOAD RD!1 WITH 1
002100	000241			CLC		
002102	073027	000010		ASHC	810,XD	:SHIFT RD,RO!1 BY 10
002106	013767	177776	012634	MOV	28PS,PSW	:SAVE PS
002114	122767	000000	012626	CHPB	80,PSW	:IS THE PS 0?
002122	001401			BEG	+.4	
002124	000000			HLT		:THE PS IS NOT EQUAL TO 0
002126	022700	000000		CHP	80,XD	:IS THE RESULT 0?
002132	001401			BEG	+.4	
002134	000000			HLT		:RD IS NOT EQUAL TO 0
002136	022701	000400		CHP	8400,XD!1	:IS THE RESULT 400?
002142	001401			BEG	+.4	
002144	000000			HLT		:RO!1 IS NOT EQUAL TO 400

\*\*\*\*\*  
:TEST 15 0 1 SHIFTED BY 11 = 0 1000 PS = 0  
\*\*\*\*\*

002146	010701			SCOPE		
002150	012700	000000		MOV	#0,%0	;LOAD R0 WITH 0
002154	012701	000001		MOV	#1,%0!1	;LOAD R0!1 WITH 1
002160	000241			CLC		
002162	073027	000011		ASHC	#11,%0	;SHIFT R0,R0!1 BY 11
002166	013767	177776	012554	MOV	#0PS,PSW	;SAVE PS
002174	122767	000000	012546	CMPB	#0,PSW	;IS THE PS 0?
002202	001401			BEQ	+.4	
002204	000000			HLT		;THE PS IS NOT EQUAL TO 0
002206	022700	000000		CMP	#0,%0	;IS THE RESULT 0?
002212	001401			BEQ	+.4	
002214	000000			HLT		;R0 IS NOT EQUAL TO 0
002216	022701	001000		CMP	#1000,%0!1	;IS THE RESULT 1000?
002222	001401			BEQ	+.4	
002224	000000			HLT		;R0!1 IS NOT EQUAL TO 1000

\*\*\*\*\*  
:TEST 16 0 1 SHIFTED BY 12 = 0 2000 PS = 0  
\*\*\*\*\*

002226	010701			SCOPE		
002230	012700	000000		MOV	#0,%0	;LOAD R0 WITH 0
002234	012701	000001		MOV	#1,%0!1	;LOAD R0!1 WITH 1
002240	000241			CLC		
002242	073027	000012		ASHC	#12,%0	;SHIFT R0,R0!1 BY 12
002246	013767	177776	012474	MOV	#0PS,PSW	;SAVE PS
002254	122767	000000	012466	CMPB	#0,PSW	;IS THE PS 0?
002262	001401			BEQ	+.4	
002264	000000			HLT		;THE PS IS NOT EQUAL TO 0
002266	022700	000000		CMP	#0,%0	;IS THE RESULT 0?
002272	001401			BEQ	+.4	
002274	000000			HLT		;R0 IS NOT EQUAL TO 0
002276	022701	002000		CMP	#2000,%0!1	;IS THE RESULT 2000?
002302	001401			BEQ	+.4	
002304	000000			HLT		;R0!1 IS NOT EQUAL TO 2000

\*\*\*\*\*  
:TEST 17 0 1 SHIFTED BY 13 = 0 4000 PS = 0  
\*\*\*\*\*

002306	010701			SCOPE		
002310	012700	000000		MOV	80,%0	:LOAD R0 WITH 0
002314	012701	000001		MOV	81,%0!1	:LOAD R0!1 WITH 1
002320	000241			CLC		
002322	073027	000013		ASHC	813,%0	:SHIFT R0,R0!1 BY 13
002326	013767	177776	012414	MOV	28PS,PSW	:SAVE PS
002334	122767	000000	012406	CHPB	80,PSW	:IS THE PS 0?
002342	001401			BEG	+.4	
002344	000000			HLT		:THE PS IS NOT EQUAL TO 0
002346	022700	000000		CHP	80,%0	:IS THE RESULT 0?
002352	001401			BEG	+.4	
002354	000000			HLT		:R0 IS NOT EQUAL TO 0
002356	022701	004000		CHP	84000,%0!1	:IS THE RESULT 4000?
002362	001401			BEG	+.4	
002364	000000			HLT		:R0!1 IS NOT EQUAL TO 4000

\*\*\*\*\*  
:TEST 20 0 1 SHIFTED BY 14 = 0 10000 PS = 0  
\*\*\*\*\*

002366	010701			SCOPE		
002370	012700	000000		MOV	80,%0	:LOAD R0 WITH 0
002374	012701	000001		MOV	81,%0!1	:LOAD R0!1 WITH 1
002400	000241			CLC		
002402	073027	000014		ASHC	814,%0	:SHIFT R0,R0!1 BY 14
002406	013767	177776	012334	MOV	28PS,PSW	:SAVE PS
002414	122767	000000	012326	CHPB	80,PSW	:IS THE PS 0?
002422	001401			BEG	+.4	
002424	000000			HLT		:THE PS IS NOT EQUAL TO 0
002426	022700	000000		CHP	80,%0	:IS THE RESULT 0?
002432	001401			BEG	+.4	
002434	000000			HLT		:R0 IS NOT EQUAL TO 0
002436	022701	010000		CHP	810000,%0!1	:IS THE RESULT 10000?
002442	001401			BEG	+.4	
002444	000000			HLT		:R0!1 IS NOT EQUAL TO 10000

\*\*\*\*\*  
TEST 21 0 1 SHIFTED BY 15 = 0 20000 PS = 0  
\*\*\*\*\*

Address	Instruction	Hex	Hex	Scope	Comment
002446	010701			SCOPE	
002450	012700	000000		MOV 00,x0	;LOAD R0 WITH 0
002454	012701	000001		MOV 01,x0!1	;LOAD R0!1 WITH 1
002460	000241			CLC	
002462	073027	000015		ASHC 015,x0	;SHIFT R0,R0!1 BY 15
002466	013767	177776	012254	MOV 00PS,PSW	;SAVE PS
002474	122767	000000	012246	CMPB 00,PSW	;IS THE PS 0?
002502	001401			BEQ .+4	
002504	000000			HLT	;THE PS IS NOT EQUAL TO 0
002506	022700	000000		CMP 00,x0	;IS THE RESULT 0?
002512	001401			BEQ .+4	
002514	000000			HLT	;R0 IS NOT EQUAL TO 0
002516	022701	020000		CMP 020000,x0!1	;IS THE RESULT 20000?
002522	001401			BEQ .+4	
002524	000000			HLT	;R0!1 IS NOT EQUAL TO 20000

\*\*\*\*\*  
TEST 22 0 1 SHIFTED BY 16 = 0 40000 PS = 0  
\*\*\*\*\*

Address	Instruction	Hex	Hex	Scope	Comment
002526	010701			SCOPE	
002530	012700	000000		MOV 00,x0	;LOAD R0 WITH 0
002534	012701	000001		MOV 01,x0!1	;LOAD R0!1 WITH 1
002540	000241			CLC	
002542	073027	000016		ASHC 016,x0	;SHIFT R0,R0!1 BY 16
002546	013767	177776	012174	MOV 00PS,PSW	;SAVE PS
002554	122767	000000	012166	CMPB 00,PSW	;IS THE PS 0?
002562	001401			BEQ .+4	
002564	000000			HLT	;THE PS IS NOT EQUAL TO 0
002566	022700	000000		CMP 00,x0	;IS THE RESULT 0?
002572	001401			BEQ .+4	
002574	000000			HLT	;R0 IS NOT EQUAL TO 0
002576	022701	040000		CMP 040000,x0!1	;IS THE RESULT 40000?
002602	001401			BEQ .+4	
002604	000000			HLT	;R0!1 IS NOT EQUAL TO 40000

\*\*\*\*\*  
:TEST 23 0 1 SHIFTED BY 17 = 0 100000 PS = 0  
:\*\*\*\*\*

002606	010701			SCOPE		
002610	012700	000000		MOV	80,X0	;LOAD R0 WITH 0
002614	012701	000001		MOV	81,X0!1	;LOAD R0!1 WITH 1
002620	000241			CLC		
002622	073027	000017		ASHC	817,X0	;SHIFT R0,R0!1 BY 17
002626	013767	177776	012114	MOV	88PS,PSW	;SAVE PS
002634	122767	000000	012106	CMPB	80,PSW	;IS THE PS 0?
002642	001401			BEQ	+.4	
002644	000000			HLT		;THE PS IS NOT EQUAL TO 0
002646	022700	000000		CMP	80,X0	;IS THE RESULT 0?
002652	001401			BEQ	+.4	
002654	000000			HLT		;R0 IS NOT EQUAL TO 0
002656	022701	100000		CMP	8100000,X0!1	;IS THE RESULT 100000?
002662	001401			BEQ	+.4	
002664	000000			HLT		;R0!1 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 24 0 1 SHIFTED BY 20 = 1 0 PS = 0  
:\*\*\*\*\*

002666	010701			SCOPE		
002670	012700	000000		MOV	80,X0	;LOAD R0 WITH 0
002674	012701	000001		MOV	81,X0!1	;LOAD R0!1 WITH 1
002700	000241			CLC		
002702	073027	000020		ASHC	820,X0	;SHIFT R0,R0!1 BY 20
002706	013767	177776	012034	MOV	88PS,PSW	;SAVE PS
002714	122767	000000	012026	CMPB	80,PSW	;IS THE PS 0?
002722	001401			BEQ	+.4	
002724	000000			HLT		;THE PS IS NOT EQUAL TO 0
002726	022700	000001		CMP	81,X0	;IS THE RESULT 1?
002732	001401			BEQ	+.4	
002734	000000			HLT		;R0 IS NOT EQUAL TO 1
002736	022701	000000		CMP	80,X0!1	;IS THE RESULT 0?
002742	001401			BEQ	+.4	
002744	000000			HLT		;R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 25 0 1 SHIFTED BY 21 = 2 0 PS = 0  
\*\*\*\*\*

002746	010701			SCOPE		
002750	012700	000000		MOV	80,XD	:LOAD RD WITH 0
002754	012701	000001		MOV	81,XD!1	:LOAD RD!1 WITH 1
002760	000241			CLC		
002762	073027	000021		ASHC	821,XD	:SHIFT RD, RD!1 BY 21
002766	013767	177776	011754	MOV	88PS,PSM	:SAVE PS
002774	122767	000000	011746	CHPB	80,PSM	:IS THE PS 0?
003002	001401			BEG	.+4	
003004	000000			HLT		:THE PS IS NOT EQUAL TO 0
003006	022700	000002		CHP	82,XD	:IS THE RESULT 2?
003012	001401			BEG	.+4	
003014	000000			HLT		:RD IS NOT EQUAL TO 2
003016	022701	000000		CHP	80,XD!1	:IS THE RESULT 0?
003022	001401			BEG	.+4	
003024	000000			HLT		:RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 26 0 1 SHIFTED BY 22 = 4 0 PS = 0  
\*\*\*\*\*

003026	010701			SCOPE		
003030	012700	000000		MOV	80,XD	:LOAD RD WITH 0
003034	012701	000001		MOV	81,XD!1	:LOAD RD!1 WITH 1
003040	000241			CLC		
003042	073027	000022		ASHC	822,XD	:SHIFT RD, RD!1 BY 22
003046	013767	177776	011674	MOV	88PS,PSM	:SAVE PS
003054	122767	000000	011666	CHPB	80,PSM	:IS THE PS 0?
003062	001401			BEG	.+4	
003064	000000			HLT		:THE PS IS NOT EQUAL TO 0
003066	022700	000004		CHP	84,XD	:IS THE RESULT 4?
003072	001401			BEG	.+4	
003074	000000			HLT		:RD IS NOT EQUAL TO 4
003076	022701	000000		CHP	80,XD!1	:IS THE RESULT 0?
003102	001401			BEG	.+4	
003104	000000			HLT		:RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 27 0 1 SHIFTED BY 23 = 10 0 PS = 0  
\*\*\*\*\*

003106	010701			SCOPE		
003110	012700	000000		NOV	80,XD	:LOAD RD WITH 0
003114	012701	000001		NOV	81,XD!1	:LOAD RD!1 WITH 1
003120	000241			CLC		
003127	073027	000023		ASHC	823,XD	:SHIFT RD,RO!1 BY 23
003137	013767	177776	011614	NOV	80,PSM	:SAVE PS
003140	122767	000000	011606	CHPB	80,PSM	:IS THE PS 0?
003140	001401			BEG	.+4	
003146	000000			HLT		:THE PS IS NOT EQUAL TO 0
003146	022700	000010		CHPB	810,XD	:IS THE RESULT 10?
003152	001401			BEG	.+4	
003154	000000			HLT		:RD IS NOT EQUAL TO 10
003156	022701	000000		CHPB	80,XD!1	:IS THE RESULT 0?
003162	001401			BEG	.+4	
003164	000000			HLT		:RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 30 0 1 SHIFTED BY 24 = 20 0 PS = 0  
\*\*\*\*\*

003166	010701			SCOPE		
003170	012700	000000		NOV	80,XD	:LOAD RD WITH 0
003174	012701	000001		NOV	81,XD!1	:LOAD RD!1 WITH 1
003200	000241			CLC		
003207	073027	000024		ASHC	824,XD	:SHIFT RD,RO!1 BY 24
003210	013767	177776	011534	NOV	80,PSM	:SAVE PS
003214	122767	000000	011526	CHPB	80,PSM	:IS THE PS 0?
003222	001401			BEG	.+4	
003224	000000			HLT		:THE PS IS NOT EQUAL TO 0
003226	022700	000020		CHPB	820,XD	:IS THE RESULT 20?
003232	001401			BEG	.+4	
003234	000000			HLT		:RD IS NOT EQUAL TO 20
003236	022701	000000		CHPB	80,XD!1	:IS THE RESULT 0?
003242	001401			BEG	.+4	
003244	000000			HLT		:RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 31 0 1 SHIFTED BY 25 = 40 0 PS = 0  
\*\*\*\*\*

003246	010701			SCOPE		
003250	012700	000000		MOV	80,XD	:LOAD RD WITH 0
003254	012701	000001		MOV	81,XD!1	:LOAD RD!1 WITH 1
003260	000241			CLC		
003262	073027	000025		ASHC	825,XD	:SHIFT RD, RD!1 BY 25
003266	013767	177776	011454	MOV	80,PS,PSM	:SAVE PS
003274	122767	000000	011446	CHPB	80,PSM	:IS THE PS 0?
003302	001401			BEG	.+4	
003304	000000			HLT		:THE PS IS NOT EQUAL TO 0
003306	022700	000040		CHP	840,XD	:IS THE RESULT 40?
003312	001401			BEG	.+4	
003314	000000			HLT		:RD IS NOT EQUAL TO 40
003316	022701	000000		CHP	80,XD!1	:IS THE RESULT 0?
003322	001401			BEG	.+4	
003324	000000			HLT		:RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 32 0 1 SHIFTED BY 26 = 100 0 PS = 0  
\*\*\*\*\*

003326	010701			SCOPE		
003330	012700	000000		MOV	80,XD	:LOAD RD WITH 0
003334	012701	000001		MOV	81,XD!1	:LOAD RD!1 WITH 1
003340	000241			CLC		
003342	073027	000026		ASHC	826,XD	:SHIFT RD, RD!1 BY 26
003346	013767	177776	011374	MOV	80,PS,PSM	:SAVE PS
003354	122767	000000	011366	CHPB	80,PSM	:IS THE PS 0?
003362	001401			BEG	.+4	
003364	000000			HLT		:THE PS IS NOT EQUAL TO 0
003366	022700	000100		CHP	8100,XD	:IS THE RESULT 100?
003372	001401			BEG	.+4	
003374	000000			HLT		:RD IS NOT EQUAL TO 100
003376	022701	000000		CHP	80,XD!1	:IS THE RESULT 0?
003402	001401			BEG	.+4	
003404	000000			HLT		:RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 33 0 1 SHIFTED BY 27 = 200 0 PS = 0  
\*\*\*\*\*

003406	010701			SCOPE		
003410	012700	000000		MOV	80,x0	;LOAD RD WITH 0
003414	012701	000001		MOV	81,x0!1	;LOAD RD!1 WITH 1
003420	000241			CLC		
003422	073027	000027		ASHC	827,x0	;SHIFT RD,RD!1 BY 27
003426	013767	177776	011314	MOV	80PS,PSM	;SAVE PS
003434	122767	000000	011306	CHPB	80,PSM	;IS THE PS 0?
003442	001401			BEQ	.+4	
003444	000000			HLT		;THE PS IS NOT EQUAL TO 0
003446	022700	000200		CHP	8200,x0	;IS THE RESULT 200?
003452	001401			BEQ	.+4	
003454	000000			HLT		;RD IS NOT EQUAL TO 200
003456	022701	000000		CHP	80,x0!1	;IS THE RESULT 0?
003462	001401			BEQ	.+4	
003464	000000			HLT		;RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 34 0 1 SHIFTED BY 30 = 400 0 PS = 0  
\*\*\*\*\*

003466	010701			SCOPE		
003470	012700	000000		MOV	80,x0	;LOAD RD WITH 0
003474	012701	000001		MOV	81,x0!1	;LOAD RD!1 WITH 1
003500	000241			CLC		
003502	073027	000030		ASHC	830,x0	;SHIFT RD,RD!1 BY 30
003506	013767	177776	011234	MOV	80PS,PSM	;SAVE PS
003514	122767	000000	011226	CHPB	80,PSM	;IS THE PS 0?
003522	001401			BEQ	.+4	
003524	000000			HLT		;THE PS IS NOT EQUAL TO 0
003526	022700	000400		CHP	8400,x0	;IS THE RESULT 400?
003532	001401			BEQ	.+4	
003534	000000			HLT		;RD IS NOT EQUAL TO 400
003536	022701	000000		CHP	80,x0!1	;IS THE RESULT 0?
003542	001401			BEQ	.+4	
003544	000000			HLT		;RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 35 0 1 SHIFTED BY 31 = 1000 0 PS = 0  
\*\*\*\*\*

003546	010701			SCOPE		
003550	012700	000000		MOV	80,XD	:LOAD RD WITH 0
003554	012701	000001		MOV	81,XD!1	:LOAD RD!1 WITH 1
003560	000241			CLC		
003562	073027	000031		ASHC	831,XD	:SHIFT RD,RD!1 BY 31
003566	013767	177776	011154	MOV	88PS,PSM	:SAVE PS
003574	122767	000000	011146	CHPB	80,PSM	:IS THE PS 0?
003602	001401			BEG	.+4	
003604	000000			HLT		:THE PS IS NOT EQUAL TO 0
003606	022700	001000		CHP	81000,XD	:IS THE RESULT 1000?
003612	001401			BEG	.+4	
003614	000000			HLT		:RD IS NOT EQUAL TO 1000
003616	022701	000000		CHP	80,XD!1	:IS THE RESULT 0?
003622	001401			BEG	.+4	
003624	000000			HLT		:RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 36 0 1 SHIFTED BY 32 = 2000 0 PS = 0  
\*\*\*\*\*

003626	010701			SCOPE		
003630	012700	000000		MOV	80,XD	:LOAD RD WITH 0
003634	012701	000001		MOV	81,XD!1	:LOAD RD!1 WITH 1
003640	000241			CLC		
003642	073027	000032		ASHC	832,XD	:SHIFT RD,RD!1 BY 32
003646	013767	177776	011074	MOV	88PS,PSM	:SAVE PS
003654	122767	000000	011066	CHPB	80,PSM	:IS THE PS 0?
003662	001401			BEG	.+4	
003664	000000			HLT		:THE PS IS NOT EQUAL TO 0
003666	022700	002000		CHP	82000,XD	:IS THE RESULT 2000?
003672	001401			BEG	.+4	
003674	000000			HLT		:RD IS NOT EQUAL TO 2000
003676	022701	000000		CHP	80,XD!1	:IS THE RESULT 0?
003702	001401			BEG	.+4	
003704	000000			HLT		:RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 37 0 1 SHIFTED BY 33 = 4000 0 PS = 0  
\*\*\*\*\*

003706	010701			SCOPE		
003710	012700	000000		MOV	80,XD	:LOAD RD WITH 0
003714	012701	000001		MOV	81,XD!1	:LOAD RD!1 WITH 1
003720	000241			CLC		
003722	073027	000033		ASHC	833,XD	:SHIFT RD,RD!1 BY 33
003726	013767	177776	011014	MOV	80,PSM	:SAVE PS
003730	122767	000000	011006	CHPB	80,PSM	:IS THE PS 0?
003734	001401			BEG	.+4	
003738	000000			HLT		:THE PS IS NOT EQUAL TO 0
003742	022700	004000		CHPB	84000,XD	:IS THE RESULT 4000?
003746	001401			BEG	.+4	
003750	000000			HLT		:RD IS NOT EQUAL TO 4000
003754	022701	000000		CHPB	80,XD!1	:IS THE RESULT 0?
003758	001401			BEG	.+4	
003762	000000			HLT		:RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 40 0 1 SHIFTED BY 34 = 10000 0 PS = 0  
\*\*\*\*\*

003766	010701			SCOPE		
003770	012700	000000		MOV	80,XD	:LOAD RD WITH 0
003774	012701	000001		MOV	81,XD!1	:LOAD RD!1 WITH 1
004000	000241			CLC		
004002	073027	000034		ASHC	834,XD	:SHIFT RD,RD!1 BY 34
004006	013767	177776	010734	MOV	80,PSM	:SAVE PS
004010	122767	000000	010726	CHPB	80,PSM	:IS THE PS 0?
004014	001401			BEG	.+4	
004018	000000			HLT		:THE PS IS NOT EQUAL TO 0
004022	022700	010000		CHPB	810000,XD	:IS THE RESULT 10000?
004026	001401			BEG	.+4	
004030	000000			HLT		:RD IS NOT EQUAL TO 10000
004034	022701	000000		CHPB	80,XD!1	:IS THE RESULT 0?
004038	001401			BEG	.+4	
004042	000000			HLT		:RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 41 0 1 SHIFTED BY 35 = 20000 0 PS = 0  
\*\*\*\*\*

004046	010701			SCOPE		
004050	012700	000000		MOV	80,x0	:LOAD R0 WITH 0
004054	012701	000001		MOV	81,x0!1	:LOAD R0!1 WITH 1
004060	000241			CLC		
004062	073027	000035		ASHC	835,x0	:SHIFT R0,R0!1 BY 35
004066	013767	177776	010654	MOV	80PS,PSM	:SAVE PS
004074	122767	000000	010646	CHPB	80,PSM	:IS THE PS 0?
004102	001401			BEG	.+4	
004104	000000			HLT		:THE PS IS NOT EQUAL TO 0
004106	022700	020000		CHPB	820000,x0	:IS THE RESULT 20000?
004112	001401			BEG	.+4	
004114	000000			HLT		:R0 IS NOT EQUAL TO 20000
004116	022701	000000		CHPB	80,x0!1	:IS THE RESULT 0?
004122	001401			BEG	.+4	
004124	000000			HLT		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 42 0 1 SHIFTED BY 36 = 40000 0 PS = 0  
\*\*\*\*\*

004126	010701			SCOPE		
004130	012700	000000		MOV	80,x0	:LOAD R0 WITH 0
004134	012701	000001		MOV	81,x0!1	:LOAD R0!1 WITH 1
004140	000241			CLC		
004142	073027	000036		ASHC	836,x0	:SHIFT R0,R0!1 BY 36
004146	013767	177776	010574	MOV	80PS,PSM	:SAVE PS
004154	122767	000000	010566	CHPB	80,PSM	:IS THE PS 0?
004162	001401			BEG	.+4	
004164	000000			HLT		:THE PS IS NOT EQUAL TO 0
004166	022700	040000		CHPB	840000,x0	:IS THE RESULT 40000?
004172	001401			BEG	.+4	
004174	000000			HLT		:R0 IS NOT EQUAL TO 40000
004176	022701	000000		CHPB	80,x0!1	:IS THE RESULT 0?
004202	001401			BEG	.+4	
004204	000000			HLT		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
: TEST 43 40000 0 SHIFTED BY 177762 = 1 0 PS = 0  
: \*\*\*\*\*

004206	010701			SCOPE		
004210	012700	040000		MOV	#40000,X0	:LOAD R0 WITH 40000
004214	012701	000000		MOV	R0,X0!1	:LOAD R0!1 WITH 0
004220	000241			CLC		
004222	073027	177762		ASHC	#177762,X0	:SHIFT R0,R0!1 BY 177762
004226	013767	177776	010514	MOV	#PS,PSH	:SAVE PS
004234	122767	000000	010506	CMPB	R0,PSH	:IS THE PS 0?
004242	001401			BEQ	.+4	
004244	000000			HLT		:THE PS IS NOT EQUAL TO 0
004246	022700	000001		CMP	R1,X0	:IS THE RESULT 1?
004250	001401			BEQ	.+4	
004254	000000			HLT		:R0 IS NOT EQUAL TO 1
004256	022701	000000		CMP	R0,X0!1	:IS THE RESULT 0?
004262	001401			BEQ	.+4	
004264	000000			HLT		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
: TEST 44 40000 0 SHIFTED BY 177763 = 2 0 PS = 0  
: \*\*\*\*\*

004266	010701			SCOPE		
004270	012700	040000		MOV	#40000,X0	:LOAD R0 WITH 40000
004274	012701	000000		MOV	R0,X0!1	:LOAD R0!1 WITH 0
004300	000241			CLC		
004302	073027	177763		ASHC	#177763,X0	:SHIFT R0,R0!1 BY 177763
004306	013767	177776	010434	MOV	#PS,PSH	:SAVE PS
004314	122767	000000	010426	CMPB	R0,PSH	:IS THE PS 0?
004322	001401			BEQ	.+4	
004324	000000			HLT		:THE PS IS NOT EQUAL TO 0
004326	022700	000002		CMP	R2,X0	:IS THE RESULT 2?
004332	001401			BEQ	.+4	
004334	000000			HLT		:R0 IS NOT EQUAL TO 2
004336	022701	000000		CMP	R0,X0!1	:IS THE RESULT 0?
004342	001401			BEQ	.+4	
004344	000000			HLT		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 45 40000 0 SHIFTED BY 177764 = 4 0 PS = 0  
:\*\*\*\*\*

004346	010701			SCOPE		
004350	012700	040000		MOV	040000,XD	;LOAD RD WITH 40000
004354	012701	000000		MOV	00,XD!1	;LOAD RD!1 WITH 0
004360	000241			CLC		
004362	073027	177764		ASHC	0177764,XD	;SHIFT RD,RO!1 BY 177764
004366	013767	177776	010354	MOV	00PS,PSM	;SAVE PS
004374	122767	000000	010346	CMPB	00,PSM	;IS THE PS 0?
004402	001401			BEQ	.+4	
004404	000000			HLT		;THE PS IS NOT EQUAL TO 0
004406	022700	000004		CMP	04,XD	;IS THE RESULT 4?
004412	001401			BEQ	.+4	
004414	000000			HLT		;RD IS NOT EQUAL TO 4
004416	022701	000000		CMP	00,XD!1	;IS THE RESULT 0?
004422	001401			BEQ	.+4	
004424	000000			HLT		;RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 46 40000 0 SHIFTED BY 177765 = 10 0 PS = 0  
:\*\*\*\*\*

004426	010701			SCOPE		
004430	012700	040000		MOV	040000,XD	;LOAD RD WITH 40000
004434	012701	000000		MOV	00,XD!1	;LOAD RD!1 WITH 0
004440	000241			CLC		
004442	073027	177765		ASHC	0177765,XD	;SHIFT RD,RO!1 BY 177765
004446	013767	177776	010274	MOV	00PS,PSM	;SAVE PS
004454	122767	000000	010266	CMPB	00,PSM	;IS THE PS 0?
004462	001401			BEQ	.+4	
004464	000000			HLT		;THE PS IS NOT EQUAL TO 0
004466	022700	000010		CMP	010,XD	;IS THE RESULT 10?
004472	001401			BEQ	.+4	
004474	000000			HLT		;RD IS NOT EQUAL TO 10
004476	022701	000000		CMP	00,XD!1	;IS THE RESULT 0?
004502	001401			BEQ	.+4	
004504	000000			HLT		;RD!1 IS NOT EQUAL TO 0



\*\*\*\*\*  
:TEST 51 40000 0 SHIFTED BY 177770 = 100 0 PS = 0  
\*\*\*\*\*

004546	010701			SCOPE		
004550	012700	040000		MOV	#40000,X0	;LOAD R0 WITH 40000
004554	012701	000000		MOV	R0,X0!1	;LOAD R0!1 WITH 0
004560	000241			CLC		
004562	073027	177770		ASHC	#177770,X0	;SHIFT R0,R0!1 BY 177770
004566	013767	177776	010054	MOV	#PS,PSH	;SAVE PS
004574	122767	000000	010046	CHPB	R0,PSH	;IS THE PS 0?
004702	001401			BEQ	.+4	
004704	000000			HLT		;THE PS IS NOT EQUAL TO 0
004706	022700	000100		CHP	#100,X0	;IS THE RESULT 100?
004712	001401			BEQ	.+4	
004714	000000			HLT		;R0 IS NOT EQUAL TO 100
004716	022701	000000		CHP	R0,X0!1	;IS THE RESULT 0?
004722	001401			BEQ	.+4	
004724	000000			HLT		;R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 52 40000 0 SHIFTED BY 177771 = 200 0 PS = 0  
\*\*\*\*\*

004726	010701			SCOPE		
004730	012700	040000		MOV	#40000,X0	;LOAD R0 WITH 40000
004734	012701	000000		MOV	R0,X0!1	;LOAD R0!1 WITH 0
004740	000241			CLC		
004742	073027	177771		ASHC	#177771,X0	;SHIFT R0,R0!1 BY 177771
004746	013767	177776	007774	MOV	#PS,PSH	;SAVE PS
004754	122767	000000	007766	CHPB	R0,PSH	;IS THE PS 0?
004762	001401			BEQ	.+4	
004764	000000			HLT		;THE PS IS NOT EQUAL TO 0
004766	022700	000200		CHP	#200,X0	;IS THE RESULT 200?
004772	001401			BEQ	.+4	
004774	000000			HLT		;R0 IS NOT EQUAL TO 200
004776	022701	000000		CHP	R0,X0!1	;IS THE RESULT 0?
005002	001401			BEQ	.+4	
005004	000000			HLT		;R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
: TEST 53 40000 0 SHIFTED BY 177772 = 400 0 PS = 0  
:\*\*\*\*\*

005006	010701			SCOPE		
005010	012700	040000		MOV	#40000,%0	;LOAD R0 WITH 40000
005014	012701	000000		MOV	#0,%0!1	;LOAD R0!1 WITH 0
005020	000241			CLC		
005022	073027	177772		ASHC	#177772,%0	;SHIFT R0,R0!1 BY 177772
005026	013767	177776	007714	MOV	#PS,PS#	;SAVE PS
005034	122767	000000	007706	CHPB	#0,PS#	;IS THE PS 0?
005042	001401			BEQ	#+4	
005044	000000			HLT		;THE PS IS NOT EQUAL TO 0
005046	022700	000400		CMP	#400,%0	;IS THE RESULT 400?
005052	001401			BEQ	#+4	
005054	000000			HLT		;R0 IS NOT EQUAL TO 400
005056	022701	000000		CMP	#0,%0!1	;IS THE RESULT 0?
005062	001401			BEQ	#+4	
005064	000000			HLT		;R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
: TEST 54 40000 0 SHIFTED BY 177773 = 1000 0 PS = 0  
:\*\*\*\*\*

005066	010701			SCOPE		
005070	012700	040000		MOV	#40000,%0	;LOAD R0 WITH 40000
005074	012701	000000		MOV	#0,%0!1	;LOAD R0!1 WITH 0
005100	000241			CLC		
005102	073027	177773		ASHC	#177773,%0	;SHIFT R0,R0!1 BY 177773
005106	013767	177776	007634	MOV	#PS,PS#	;SAVE PS
005114	122767	000000	007626	CHPB	#0,PS#	;IS THE PS 0?
005122	001401			BEQ	#+4	
005124	000000			HLT		;THE PS IS NOT EQUAL TO 0
005126	022700	001000		CMP	#1000,%0	;IS THE RESULT 1000?
005132	001401			BEQ	#+4	
005134	000000			HLT		;R0 IS NOT EQUAL TO 1000
005136	022701	000000		CMP	#0,%0!1	;IS THE RESULT 0?
005142	001401			BEQ	#+4	
005144	000000			HLT		;R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 55 40000 0 SHIFTED BY 177774 = 2000 0 PS = 0  
\*\*\*\*\*

005146	010701			SCOPE		
005150	012700	040000		MOV	040000,x0	;LOAD R0 WITH 40000
005154	012701	000000		MOV	00,x0!1	;LOAD R0!1 WITH 0
005160	000241			CLC		
005162	073027	177774		ASHC	0177774,x0	;SHIFT R0,R0!1 BY 177774
005166	013767	177776	007554	MOV	00PS,PSW	;SAVE PS
005174	122767	000000	007546	CHPB	00,PSW	;IS THE PS 0?
005202	001401			BEQ	.+4	
005204	000000			HLT		;THE PS IS NOT EQUAL TO 0
005206	022700	002000		CHP	02000,x0	;IS THE RESULT 2000?
005212	001401			BEQ	.+4	
005214	000000			HLT		;R0 IS NOT EQUAL TO 2000
005216	022701	000000		CHP	00,x0!1	;IS THE RESULT 0?
005222	001401			BEQ	.+4	
005224	000000			HLT		;R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 56 40000 0 SHIFTED BY 177775 = 4000 0 PS = 0  
\*\*\*\*\*

005226	010701			SCOPE		
005230	012700	040000		MOV	040000,x0	;LOAD R0 WITH 40000
005234	012701	000000		MOV	00,x0!1	;LOAD R0!1 WITH 0
005240	000241			CLC		
005242	073027	177775		ASHC	0177775,x0	;SHIFT R0,R0!1 BY 177775
005246	013767	177776	007474	MOV	00PS,PSW	;SAVE PS
005254	122767	000000	007466	CHPB	00,PSW	;IS THE PS 0?
005262	001401			BEQ	.+4	
005264	000000			HLT		;THE PS IS NOT EQUAL TO 0
005266	022700	004000		CHP	04000,x0	;IS THE RESULT 4000?
005272	001401			BEQ	.+4	
005274	000000			HLT		;R0 IS NOT EQUAL TO 4000
005276	022701	000000		CHP	00,x0!1	;IS THE RESULT 0?
005302	001401			BEQ	.+4	
005304	000000			HLT		;R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 57 40000 0 SHIFTED BY 177776 = 10000 0 PS = 0  
\*\*\*\*\*

005306	010701			SCOPE		
005310	012700	040000		MOV	#40000,x0	:LOAD R0 WITH 40000
005314	012701	000000		MOV	R0,x0!1	:LOAD R0!1 WITH 0
005318	000241			CLC		
005322	073027	177776		ASHC	#177776,x0	:SHIFT R0,R0!1 BY 177776
005326	013767	177776	007414	MOV	#PS,PS#	:SAVE PS
005330	122767	000000	007406	CMPB	R0,PS#	:IS THE PS 0?
005334	001401			BEG	+.4	
005338	000000			HLT		:THE PS IS NOT EQUAL TO 0
005342	022700	010000		CMP	#10000,x0	:IS THE RESULT 10000?
005346	001401			BEG	+.4	
005350	000000			HLT		:R0 IS NOT EQUAL TO 10000
005354	022701	000000		CMP	R0,x0!1	:IS THE RESULT 0?
005358	001401			BEG	+.4	
005362	000000			HLT		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 60 40000 0 SHIFTED BY 177777 = 20000 0 PS = 0  
\*\*\*\*\*

005366	010701			SCOPE		
005370	012700	040000		MOV	#40000,x0	:LOAD R0 WITH 40000
005374	012701	000000		MOV	R0,x0!1	:LOAD R0!1 WITH 0
005400	000241			CLC		
005402	073027	177777		ASHC	#177777,x0	:SHIFT R0,R0!1 BY 177777
005406	013767	177776	007334	MOV	#PS,PS#	:SAVE PS
005410	122767	000000	007326	CMPB	R0,PS#	:IS THE PS 0?
005414	001401			BEG	+.4	
005418	000000			HLT		:THE PS IS NOT EQUAL TO 0
005422	022700	020000		CMP	#20000,x0	:IS THE RESULT 20000?
005426	001401			BEG	+.4	
005430	000000			HLT		:R0 IS NOT EQUAL TO 20000
005434	022701	000000		CMP	R0,x0!1	:IS THE RESULT 0?
005438	001401			BEG	+.4	
005442	000000			HLT		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 61 40000 0 SHIFTED BY 0 = 40000 0 PS = 0  
\*\*\*\*\*

005446	010701			SCOPE		
005450	012700	040000		MOV	#40000,x0	:LOAD R0 WITH 40000
005454	012701	000000		MOV	R0,x0!1	:LOAD R0!1 WITH 0
005460	000241			CLC		
005464	073027	000000		ASHC	R0,x0	:SHIFT R0,R0!1 BY 0
005468	013767	177776	007254	MOV	3#PS,PSH	:SAVE PS
005474	122767	000000	007246	CMPB	R0,PSH	:IS THE PS 0?
005502	001401			BEG	.+4	
005506	000000			HLT		:THE PS IS NOT EQUAL TO 0
005510	022700	040000		CMP	#40000,x0	:IS THE RESULT 40000?
005514	001401			BEG	.+4	
005518	000000			HLT		:R0 IS NOT EQUAL TO 40000
005516	022701	000000		CMP	R0,x0!1	:IS THE RESULT 0?
005520	001401			BEG	.+4	
005524	000000			HLT		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 62 40000 0 SHIFTED BY 177742 = 0 1 PS = 0  
\*\*\*\*\*

005526	010701			SCOPE		
005530	012700	040000		MOV	#40000,x0	:LOAD R0 WITH 40000
005534	012701	000000		MOV	R0,x0!1	:LOAD R0!1 WITH 0
005540	000241			CLC		
005544	073027	177742		ASHC	#177742,x0	:SHIFT R0,R0!1 BY 177742
005548	013767	177776	007174	MOV	3#PS,PSH	:SAVE PS
005554	122767	000000	007166	CMPB	R0,PSH	:IS THE PS 0?
005562	001401			BEG	.+4	
005566	000000			HLT		:THE PS IS NOT EQUAL TO 0
005570	022700	000000		CMP	R0,x0	:IS THE RESULT 0?
005574	001401			BEG	.+4	
005578	000000			HLT		:R0 IS NOT EQUAL TO 0
005576	022701	000001		CMP	#1,x0!1	:IS THE RESULT 1?
005602	001401			BEG	.+4	
005604	000000			HLT		:R0!1 IS NOT EQUAL TO 1

\*\*\*\*\*  
:TEST 63 40000 0 SHIFTED BY 177743 = 0 2 PS = 0  
\*\*\*\*\*

005606	010701			SCOPE		
005610	012700	040000		MOV	040000,XD	;LOAD RD WITH 40000
005614	012701	000000		MOV	00,XD!1	;LOAD RD!1 WITH 0
005618	000241			CLC		
005622	073027	177743		ASHC	0177743,XD	;SHIFT RD, RD!1 BY 177743
005626	013767	177776	007114	MOV	00PS,PSM	;SAVE PS
005630	122767	000000	007106	CHPB	00,PSM	;IS THE PS 0?
005634	001401			BEG	.+4	
005638	000000			HLT		;THE PS IS NOT EQUAL TO 0
005642	022700	000000		CHPB	00,XD	;IS THE RESULT 0?
005646	001401			BEG	.+4	
005650	000000			HLT		;RD IS NOT EQUAL TO 0
005654	022701	000002		CHPB	02,XD!1	;IS THE RESULT 2?
005658	001401			BEG	.+4	
005662	000000			HLT		;RD!1 IS NOT EQUAL TO 2

\*\*\*\*\*  
:TEST 64 40000 0 SHIFTED BY 177744 = 0 4 PS = 0  
\*\*\*\*\*

005666	010701			SCOPE		
005670	012700	040000		MOV	040000,XD	;LOAD RD WITH 40000
005674	012701	000000		MOV	00,XD!1	;LOAD RD!1 WITH 0
005678	000241			CLC		
005682	073027	177744		ASHC	0177744,XD	;SHIFT RD, RD!1 BY 177744
005686	013767	177776	007034	MOV	00PS,PSM	;SAVE PS
005690	122767	000000	007026	CHPB	00,PSM	;IS THE PS 0?
005694	001401			BEG	.+4	
005698	000000			HLT		;THE PS IS NOT EQUAL TO 0
005702	022700	000000		CHPB	00,XD	;IS THE RESULT 0?
005706	001401			BEG	.+4	
005710	000000			HLT		;RD IS NOT EQUAL TO 0
005714	022701	000004		CHPB	04,XD!1	;IS THE RESULT 4?
005718	001401			BEG	.+4	
005722	000000			HLT		;RD!1 IS NOT EQUAL TO 4

\*\*\*\*\*  
:TEST 65 40000 0 SHIFTED BY 177745 = 0 10 PS = 0  
\*\*\*\*\*

005746	010701			SCOPE		
005750	012700	040000		MOV	040000,XD	;LOAD RD WITH 40000
005754	012701	000000		MOV	00,XD!1	;LOAD RD!1 WITH 0
005760	000241			CLC		
005764	073027	177745		ASHC	0177745,XD	;SHIFT RD,RD!1 BY 177745
005768	013767	177776	005754	MOV	00PS,PSM	;SAVE PS
005774	122767	000000	005746	CMPB	00,PSM	;IS THE PS 0?
005778	001401			HLT	.+4	
005784	000000			HLT		
005788	000000			HLT		
005794	022700	000000		CMP	00,XD	;THE PS IS NOT EQUAL TO 0
005800	001401			HLT	.+4	;IS THE RESULT 0?
005806	000000			HLT		
005812	000000			HLT		
005818	000000			HLT		
005824	022701	000010		CMP	010,XD!1	;RD IS NOT EQUAL TO 0
005830	001401			HLT	.+4	;IS THE RESULT 10?
005836	000000			HLT		
005842	000000			HLT		
005848	000000			HLT		
005854	000000			HLT		
005860	000000			HLT		
005866	000000			HLT		
005872	000000			HLT		
005878	000000			HLT		
005884	000000			HLT		
005890	000000			HLT		
005896	000000			HLT		
005902	000000			HLT		
005908	000000			HLT		
005914	000000			HLT		
005920	000000			HLT		
005926	000000			HLT		
005932	000000			HLT		
005938	000000			HLT		
005944	000000			HLT		
005950	000000			HLT		
005956	000000			HLT		
005962	000000			HLT		
005968	000000			HLT		
005974	000000			HLT		
005980	000000			HLT		
005986	000000			HLT		
005992	000000			HLT		
005998	000000			HLT		

\*\*\*\*\*  
:TEST 66 40000 0 SHIFTED BY 177746 = 0 20 PS = 0  
\*\*\*\*\*

006026	010701			SCOPE		
006030	012700	040000		MOV	040000,XD	;LOAD RD WITH 40000
006034	012701	000000		MOV	00,XD!1	;LOAD RD!1 WITH 0
006040	000241			CLC		
006044	073027	177746		ASHC	0177746,XD	;SHIFT RD,RD!1 BY 177746
006048	013767	177776	006674	MOV	00PS,PSM	;SAVE PS
006054	122767	000000	006666	CMPB	00,PSM	;IS THE PS 0?
006060	001401			HLT	.+4	
006066	000000			HLT		
006072	000000			HLT		
006078	022700	000000		CMP	00,XD	;THE PS IS NOT EQUAL TO 0
006084	001401			HLT	.+4	;IS THE RESULT 0?
006090	000000			HLT		
006096	000000			HLT		
006102	022701	000020		CMP	020,XD!1	;RD IS NOT EQUAL TO 0
006108	001401			HLT	.+4	;IS THE RESULT 20?
006114	000000			HLT		
006120	000000			HLT		
006126	000000			HLT		
006132	000000			HLT		
006138	000000			HLT		
006144	000000			HLT		
006150	000000			HLT		
006156	000000			HLT		
006162	000000			HLT		
006168	000000			HLT		
006174	000000			HLT		
006180	000000			HLT		
006186	000000			HLT		
006192	000000			HLT		
006198	000000			HLT		
006204	000000			HLT		
006210	000000			HLT		
006216	000000			HLT		
006222	000000			HLT		
006228	000000			HLT		
006234	000000			HLT		
006240	000000			HLT		
006246	000000			HLT		
006252	000000			HLT		
006258	000000			HLT		
006264	000000			HLT		
006270	000000			HLT		
006276	000000			HLT		
006282	000000			HLT		
006288	000000			HLT		
006294	000000			HLT		
006300	000000			HLT		
006306	000000			HLT		
006312	000000			HLT		
006318	000000			HLT		
006324	000000			HLT		
006330	000000			HLT		
006336	000000			HLT		
006342	000000			HLT		
006348	000000			HLT		
006354	000000			HLT		
006360	000000			HLT		
006366	000000			HLT		
006372	000000			HLT		
006378	000000			HLT		
006384	000000			HLT		
006390	000000			HLT		
006396	000000			HLT		
006402	000000			HLT		
006408	000000			HLT		
006414	000000			HLT		
006420	000000			HLT		
006426	000000			HLT		
006432	000000			HLT		
006438	000000			HLT		
006444	000000			HLT		
006450	000000			HLT		
006456	000000			HLT		
006462	000000			HLT		
006468	000000			HLT		
006474	000000			HLT		
006480	000000			HLT		
006486	000000			HLT		
006492	000000			HLT		
006498	000000			HLT		
006504	000000			HLT		
006510	000000			HLT		
006516	000000			HLT		
006522	000000			HLT		
006528	000000			HLT		
006534	000000			HLT		
006540	000000			HLT		
006546	000000			HLT		
006552	000000			HLT		
006558	000000			HLT		
006564	000000			HLT		
006570	000000			HLT		
006576	000000			HLT		
006582	000000			HLT		
006588	000000			HLT		
006594	000000			HLT		
006600	000000			HLT		
006606	000000			HLT		
006612	000000			HLT		
006618	000000			HLT		
006624	000000			HLT		
006630	000000			HLT		
006636	000000			HLT		
006642	000000			HLT		
006648	000000			HLT		
006654	000000			HLT		
006660	000000			HLT		
006666	000000			HLT		
006672	000000			HLT		
006678	000000			HLT		
006684	000000			HLT		
006690	000000			HLT		
006696	000000			HLT		
006702	000000			HLT		
006708	000000			HLT		
006714	000000			HLT		
006720	000000			HLT		
006726	000000			HLT		
006732	000000			HLT		
006738	000000			HLT		
006744	000000			HLT		
006750	000000			HLT		
006756	000000			HLT		
006762	000000			HLT		
006768	000000			HLT		
006774	000000			HLT		
006780	000000			HLT		
006786	000000			HLT		
006792	000000			HLT		
006798	000000			HLT		
006804	000000			HLT		
006810	000000			HLT		
006816	000000			HLT		
006822	000000			HLT		
006828	000000			HLT		
006834	000000			HLT		
006840	000000			HLT		
006846	000000			HLT		
006852	000000			HLT		
006858	000000			HLT		
006864	000000			HLT		
006870	000000			HLT		
006876	000000			HLT		
006882	000000			HLT		
006888	000000			HLT		
006894	000000			HLT		
006900	000000			HLT		
006906	000000			HLT		
006912	000000			HLT		
006918	000000			HLT		
006924	000000			HLT		
006930	000000			HLT		
006936	000000			HLT		
006942	000000			HLT		
006948	000000			HLT		
006954	000000			HLT		
006960	000000			HLT		
006966	000000			HLT		
006972	000000			HLT		
006978	000000			HLT		
006984	000000			HLT		
006990	000000			HLT		
006996	000000			HLT		
007002	000000			HLT		
007008	000000			HLT		
007014	000000			HLT		
007020	000000			HLT		
007026	000000			HLT		
007032	000000			HLT		
007038	000000			HLT		
007044	000000			HLT		
007050	000000			HLT		
007056	000000			HLT		
007062	000000			HLT		
007068	000000			HLT		
007074	000000			HLT		
007080	000000			HLT		
007086	000000			HLT		
007092	000000			HLT		
007098	000000			HLT		
007104	000000			HLT		
007110	000000			HLT		
007116	000000			HLT		
007122	000000			HLT		
007128	000000			HLT		
007134	000000			HLT		
007140	000000			HLT		
0						

\*\*\*\*\*  
:TEST 67 40000 0 SHIFTED BY 177747 = 0 40 PS = 0  
\*\*\*\*\*

006106	010701			SCOPE		
006110	012700	040000		MOV	040000,XD	:LOAD RD WITH 40000
006114	012701	000000		MOV	00,XD!1	:LOAD RD!1 WITH 0
006118	000241			CLC		
006122	073027	177747		ASMC	0177747,XD	:SHIFT RD,RD!1 BY 177747
006126	013767	177776	006614	MOV	00PS,PSM	:SAVE PS
006130	122767	000000	006606	CHPB	00,PSM	:IS THE PS 0?
006134	001401			BEG	.+4	
006138	000000			HLT		:THE PS IS NOT EQUAL TO 0
006142	022700	000000		CHPB	00,XD	:IS THE RESULT 0?
006146	001401			BEG	.+4	
006150	000000			HLT		:RD IS NOT EQUAL TO 0
006154	022701	000040		CHPB	040,XD!1	:IS THE RESULT 40?
006158	001401			BEG	.+4	
006162	000000			HLT		:RD!1 IS NOT EQUAL TO 40

\*\*\*\*\*  
:TEST 70 40000 0 SHIFTED BY 177750 = 0 100 PS = 0  
\*\*\*\*\*

006166	010701			SCOPE		
006170	012700	040000		MOV	040000,XD	:LOAD RD WITH 40000
006174	012701	000000		MOV	00,XD!1	:LOAD RD!1 WITH 0
006178	000241			CLC		
006182	073027	177750		ASMC	0177750,XD	:SHIFT RD,RD!1 BY 177750
006186	013767	177776	006534	MOV	00PS,PSM	:SAVE PS
006190	122767	000000	006526	CHPB	00,PSM	:IS THE PS 0?
006194	001401			BEG	.+4	
006198	000000			HLT		:THE PS IS NOT EQUAL TO 0
006202	022700	000000		CHPB	00,XD	:IS THE RESULT 0?
006206	001401			BEG	.+4	
006210	000000			HLT		:RD IS NOT EQUAL TO 0
006214	022701	000100		CHPB	0100,XD!1	:IS THE RESULT 100?
006218	001401			BEG	.+4	
006222	000000			HLT		:RD!1 IS NOT EQUAL TO 100

\*\*\*\*\*  
:TEST 71 40000 0 SHIFTED BY 177751 = 0 200 PS = 0  
\*\*\*\*\*

006346	010701			SCOPE		
006347	012700	040000		NOV	040000,x0	:LOAD R0 WITH 40000
006348	012701	000000		NOV	00,x0!1	:LOAD R0!1 WITH 0
006349	000241			CLC		
006350	073027	177751		ASHC	0177751,x0	:SHIFT R0,R0!1 BY 177751
006351	013767	177776	006454	NOV	00PS,PS0	:SAVE PS
006352	122767	000000	006446	CHP0	00,PS0	:IS THE PS 0?
006353	001401			REG	.+4	
006354	000000			H-REG		:THE PS IS NOT EQUAL TO 0
006355	022700	000000		CHP0	00,x0	:IS THE RESULT 0?
006356	001401			REG	.+4	
006357	000000			H-REG		:R0 IS NOT EQUAL TO 0
006358	022701	000200		CHP0	0200,x0!1	:IS THE RESULT 200?
006359	001401			REG	.+4	
006360	000000			H-REG		:R0!1 IS NOT EQUAL TO 200

\*\*\*\*\*  
:TEST 72 40000 0 SHIFTED BY 177752 = 0 400 PS = 0  
\*\*\*\*\*

006361	010701			SCOPE		
006362	012700	040000		NOV	040000,x0	:LOAD R0 WITH 40000
006363	012701	000000		NOV	00,x0!1	:LOAD R0!1 WITH 0
006364	000241			CLC		
006365	073027	177752		ASHC	0177752,x0	:SHIFT R0,R0!1 BY 177752
006366	013767	177776	006374	NOV	00PS,PS0	:SAVE PS
006367	122767	000000	006366	CHP0	00,PS0	:IS THE PS 0?
006368	001401			REG	.+4	
006369	000000			H-REG		:THE PS IS NOT EQUAL TO 0
006370	022700	000000		CHP0	00,x0	:IS THE RESULT 0?
006371	001401			REG	.+4	
006372	000000			H-REG		:R0 IS NOT EQUAL TO 0
006373	022701	000400		CHP0	0400,x0!1	:IS THE RESULT 400?
006374	001401			REG	.+4	
006375	000000			H-REG		:R0!1 IS NOT EQUAL TO 400

\*\*\*\*\*  
:TEST 73 40000 0 SHIFTED BY 177753 = 0 1000 PS = 0  
\*\*\*\*\*

006406	010701			SCOPE		
006410	012700	040000		MOV	040000,x0	:LOAD R0 WITH 40000
006414	012701	000000		MOV	00,x0!1	:LOAD R0!1 WITH 0
006420	000241			CLC		
006422	073027	177753		ASNC	0177753,x0	:SHIFT R0,R0!1 BY 177753
006426	013767	177776	006314	MOV	00PS,PS0	:SAVE PS
006434	122767	000000	006306	CHPB	00,PS0	:IS THE PS 0?
006442	001401			BEG	.+4	
006444	000000			HLT		:THE PS IS NOT EQUAL TO 0
006446	022700	000000		CHP	00,x0	:IS THE RESULT 0?
006450	001401			BEG	.+4	
006454	000000			HLT		:R0 IS NOT EQUAL TO 0
006456	022701	001000		CHP	01000,x0!1	:IS THE RESULT 1000?
006462	001401			BEG	.+4	
006464	000000			HLT		:R0!1 IS NOT EQUAL TO 1000

\*\*\*\*\*  
:TEST 74 40000 0 SHIFTED BY 177754 = 0 2000 PS = 0  
\*\*\*\*\*

006466	010701			SCOPE		
006470	012700	040000		MOV	040000,x0	:LOAD R0 WITH 40000
006474	012701	000000		MOV	00,x0!1	:LOAD R0!1 WITH 0
006500	000241			CLC		
006502	073027	177754		ASNC	0177754,x0	:SHIFT R0,R0!1 BY 177754
006506	013767	177776	006234	MOV	00PS,PS0	:SAVE PS
006514	122767	000000	006226	CHPB	00,PS0	:IS THE PS 0?
006522	001401			BEG	.+4	
006524	000000			HLT		:THE PS IS NOT EQUAL TO 0
006526	022700	000000		CHP	00,x0	:IS THE RESULT 0?
006532	001401			BEG	.+4	
006534	000000			HLT		:R0 IS NOT EQUAL TO 0
006536	022701	002000		CHP	02000,x0!1	:IS THE RESULT 2000?
006542	001401			BEG	.+4	
006544	000000			HLT		:R0!1 IS NOT EQUAL TO 2000

\*\*\*\*\*  
:TEST 75 40000 0 SHIFTED BY 177755 = 0 4000 PS = 0  
\*\*\*\*\*

006546	010701			SCOPE		
006550	012700	040000		MOV	040000,x0	:LOAD RD WITH 40000
006554	012701	000000		MOV	00,x0!1	:LOAD RD!1 WITH 0
006560	000241			CLC		
006562	073027	177755		ASHC	0177755,x0	:SHIFT RD, RD!1 BY 177755
006566	013767	177776	006154	MOV	00PS,PSM	:SAVE PS
006574	122767	000000	006146	CHPB	00,PSM	:IS THE PS 0?
006602	001401			BEQ	+.4	
006604	000000			HLT		:THE PS IS NOT EQUAL TO 0
006606	022700	000000		CHP	00,x0	:IS THE RESULT 0?
006612	001401			BEQ	+.4	
006614	000000			HLT		:RD IS NOT EQUAL TO 0
006616	022701	004000		CHP	04000,x0!1	:IS THE RESULT 4000?
006622	001401			BEQ	+.4	
006624	000000			HLT		:RD!1 IS NOT EQUAL TO 4000

\*\*\*\*\*  
:TEST 76 40000 0 SHIFTED BY 177756 = 0 10000 PS = 0  
\*\*\*\*\*

006626	010701			SCOPE		
006630	012700	040000		MOV	040000,x0	:LOAD RD WITH 40000
006634	012701	000000		MOV	00,x0!1	:LOAD RD!1 WITH 0
006640	000241			CLC		
006642	073027	177756		ASHC	0177756,x0	:SHIFT RD, RD!1 BY 177756
006646	013767	177776	006074	MOV	00PS,PSM	:SAVE PS
006654	122767	000000	006066	CHPB	00,PSM	:IS THE PS 0?
006662	001401			BEQ	+.4	
006664	000000			HLT		:THE PS IS NOT EQUAL TO 0
006666	022700	000000		CHP	00,x0	:IS THE RESULT 0?
006672	001401			BEQ	+.4	
006674	000000			HLT		:RD IS NOT EQUAL TO 0
006676	022701	010000		CHP	010000,x0!1	:IS THE RESULT 10000?
006702	001401			BEQ	+.4	
006704	000000			HLT		:RD!1 IS NOT EQUAL TO 10000

\*\*\*\*\*  
:TEST 77 40000 0 SHIFTED BY 177757 = 0 20000 PS = 0  
\*\*\*\*\*

006706	010701			SCOPE		
006710	012700	040000		MOV	#40000,XD	;LOAD RD WITH 40000
006714	012701	000000		MOV	RD,XD!1	;LOAD RD!1 WITH 0
006720	000241			CLC		
006722	073027	177757		ASHC	#177757,XD	;SHIFT RD,RD!1 BY 177757
006726	013767	177776	006014	MOV	#PS,PSM	;SAVE PS
006734	122767	000000	006006	CHPB	RD,PSM	;IS THE PS 0?
006742	001401			BEG	.+4	
006744	000000			HLT		;THE PS IS NOT EQUAL TO 0
006746	022700	000000		CHP	RD,XD	;IS THE RESULT 0?
006752	001401			BEG	.+4	
006754	000000			HLT		;RD IS NOT EQUAL TO 0
006756	022701	020000		CHP	#20000,XD!1	;IS THE RESULT 20000?
006762	001401			BEG	.+4	
006764	000000			HLT		;RD!1 IS NOT EQUAL TO 20000

\*\*\*\*\*  
:TEST 100 40000 0 SHIFTED BY 177760 = 0 40000 PS = 0  
\*\*\*\*\*

006766	010701			SCOPE		
006770	012700	040000		MOV	#40000,XD	;LOAD RD WITH 40000
006774	012701	000000		MOV	RD,XD!1	;LOAD RD!1 WITH 0
007000	000241			CLC		
007002	073027	177760		ASHC	#177760,XD	;SHIFT RD,RD!1 BY 177760
007006	013767	177776	005734	MOV	#PS,PSM	;SAVE PS
007014	122767	000000	005726	CHPB	RD,PSM	;IS THE PS 0?
007022	001401			BEG	.+4	
007024	000000			HLT		;THE PS IS NOT EQUAL TO 0
007026	022700	000000		CHP	RD,XD	;IS THE RESULT 0?
007032	001401			BEG	.+4	
007034	000000			HLT		;RD IS NOT EQUAL TO 0
007036	022701	040000		CHP	#40000,XD!1	;IS THE RESULT 40000?
007042	001401			BEG	.+4	
007044	000000			HLT		;RD!1 IS NOT EQUAL TO 40000

\*\*\*\*\*  
:TEST 101 40000 0 SHIFTED BY 177761 = 0 100000 PS = 0  
\*\*\*\*\*

007046	010701			SCOPE		
007050	012700	040000		MOV	040000,XD	;LOAD RD WITH 40000
007054	012701	000000		MOV	00,XD!1	;LOAD RD!1 WITH 0
007060	000241			CLC		
007062	073027	177761		ASHC	0177761,XD	;SHIFT RD,RO!1 BY 177761
007066	013767	177776	005654	MOV	00PS,PSW	;SAVE PS
007074	122767	000000	005646	CHPB	00,PSW	;IS THE PS 0?
007102	001401			BEG	.+4	
007104	000000			HLT		;THE PS IS NOT EQUAL TO 0
007106	022700	000000		CHP	00,XD	;IS THE RESULT 0?
007112	001401			BEG	.+4	
007114	000000			HLT		;RD IS NOT EQUAL TO 0
007116	022701	100000		CHP	0100000,XD!1	;IS THE RESULT 100000?
007122	001401			BEG	.+4	
007124	000000			HLT		;RD!1 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 102 -1 0 SHIFTED BY -16. = -1 -1 PS = 10  
\*\*\*\*\*

007126	010701			SCOPE		
007130	012700	177777		MOV	0-1,XD	;LOAD RD WITH -1
007134	012701	000000		MOV	00,XD!1	;LOAD RD!1 WITH 0
007140	000241			CLC		
007142	073027	177760		ASHC	0-16,XD	;SHIFT RD,RO!1 BY -16.
007146	013767	177776	005574	MOV	00PS,PSW	;SAVE PS
007154	122767	000010	005566	CHPB	010,PSW	;IS THE PS 10?
007162	001401			BEG	.+4	
007164	000000			HLT		;THE PS IS NOT EQUAL TO 10
007166	022700	177777		CHP	0-1,XD	;IS THE RESULT -1?
007172	001401			BEG	.+4	
007174	000000			HLT		;RD IS NOT EQUAL TO -1
007176	022701	177777		CHP	0-1,XD!1	;IS THE RESULT -1?
007202	001401			BEG	.+4	
007204	000000			HLT		;RD!1 IS NOT EQUAL TO -1

\*\*\*\*\*  
:TEST 103 125252 0 SHIFTED BY -16. = -1 125252 PS = 10  
\*\*\*\*\*

Address	Label	Value	Comment	Instruction	Operands	Comment
007206	010701			SCOPE		
007210	012700	125252		MOV	#125252,X0	:LOAD R0 WITH 125252
007214	012701	000000		MOV	R0,X0!1	:LOAD R0!1 WITH 0
007220	000241			CLC		
007222	073027	177760		ASHC	#-16,X0	:SHIFT R0,R0!1 BY -16.
007226	013767	177776	005514	MOV	#PS,PSW	:SAVE PS
007234	122767	000010	005506	CMPB	R0,PSW	:IS THE PS 10?
007242	001401			BEQ	.+4	
007244	000000			HLT		:THE PS IS NOT EQUAL TO 10
007246	022700	177777		CMP	#-1,X0	:IS THE RESULT -1?
007252	001401			BEQ	.+4	
007254	000000			HLT		:R0 IS NOT EQUAL TO -1
007256	022701	125252		CMP	#125252,X0!1	:IS THE RESULT 125252?
007262	001401			BEQ	.+4	
007264	000000			HLT		:R0!1 IS NOT EQUAL TO 125252

\*\*\*\*\*  
:TEST 104 52525 0 SHIFTED BY -16. = 0 52525 PS = 0  
\*\*\*\*\*

Address	Label	Value	Comment	Instruction	Operands	Comment
007266	010701			SCOPE		
007270	012700	52525		MOV	#52525,X0	:LOAD R0 WITH 52525
007274	012701	000000		MOV	R0,X0!1	:LOAD R0!1 WITH 0
007300	000241			CLC		
007302	073027	177760		ASHC	#-16,X0	:SHIFT R0,R0!1 BY -16.
007306	013767	177776	005434	MOV	#PS,PSW	:SAVE PS
007314	122767	000000	005426	CMPB	R0,PSW	:IS THE PS 0?
007322	001401			BEQ	.+4	
007324	000000			HLT		:THE PS IS NOT EQUAL TO 0
007326	022700	000000		CMP	R0,X0	:IS THE RESULT 0?
007332	001401			BEQ	.+4	
007334	000000			HLT		:R0 IS NOT EQUAL TO 0
007336	022701	52525		CMP	#52525,X0!1	:IS THE RESULT 52525?
007342	001401			BEQ	.+4	
007344	000000			HLT		:R0!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 105 100000 0 SHIFTED BY -32. = -1 -1 PS = 11  
\*\*\*\*\*

007346	010701			SCOPE		
007350	012700	100000		MOV	0100000,%0	:LOAD R0 WITH 100000
007354	012701	000000		MOV	00,%0!1	:LOAD R0!1 WITH 0
007360	000241			CLC		
007362	073027	177740		ASHC	0-32,%0	:SHIFT R0,R0!1 BY -32.
007366	013767	177776	005354	MOV	00PS,PSM	:SAVE PS
007374	122767	000011	005346	CMPB	011,PSM	:IS THE PS 11?
007402	001401			BEQ	+.4	
007404	000000			HLT		:THE PS IS NOT EQUAL TO 11
007406	022700	177777		CMP	0-1,%0	:IS THE RESULT -1?
007412	001401			BEQ	+.4	
007414	000000			HLT		:R0 IS NOT EQUAL TO -1
007416	022701	177777		CMP	0-1,%0!1	:IS THE RESULT -1?
007422	001401			BEQ	+.4	
007424	000000			HLT		:R0!1 IS NOT EQUAL TO -1

\*\*\*\*\*  
:TEST 106 0 -1 SHIFTED BY 15. = 77777 100000 PS = 0  
\*\*\*\*\*

007426	010701			SCOPE		
007430	012700	000000		MOV	00,%0	:LOAD R0 WITH 0
007434	012701	177777		MOV	0-1,%0!1	:LOAD R0!1 WITH -1
007440	000241			CLC		
007442	073027	000017		ASHC	015,%0	:SHIFT R0,R0!1 BY 15.
007446	013767	177776	005274	MOV	00PS,PSM	:SAVE PS
007454	122767	000000	005266	CMPB	00,PSM	:IS THE PS 0?
007462	001401			BEQ	+.4	
007464	000000			HLT		:THE PS IS NOT EQUAL TO 0
007466	022700	077777		CMP	077777,%0	:IS THE RESULT 77777?
007472	001401			BEQ	+.4	
007474	000000			HLT		:R0 IS NOT EQUAL TO 77777
007476	022701	100000		CMP	0100000,%0!1	:IS THE RESULT 100000?
007502	001401			BEQ	+.4	
007504	000000			HLT		:R0!1 IS NOT EQUAL TO 100000

\*\*\*\*\*  
 :TEST 107 0 -1 SHIFTED BY 16. = -1 0 PS = 12  
 :\*\*\*\*\*

007506	010701			SCOPE		
007510	012700	000000		NOV	00,x0	:LOAD RO WITH 0
007514	012701	177777		NOV	0-1,x0!1	:LOAD RO!1 WITH -1
007520	000241			CLC		
007522	073027	000020		ASHC	016,x0	:SHIFT RO,RO!1 BY 16.
007526	013767	177776	005214	NOV	0!PS,PSH	:SAVE PS
007534	122767	000012	005206	CHPB	012,PSH	:IS THE PS 12?
007542	001401			BEG	.+4	
007544	000000			HLT		:THE PS IS NOT EQUAL TO 12
007546	022700	177777		CHPB	0-1,x0	:IS THE RESULT -1?
007550	001401			BEG	.+4	
007554	000000			HLT		:RO IS NOT EQUAL TO -1
007556	022701	000000		CHPB	00,x0!1	:IS THE RESULT 0?
007562	001401			BEG	.+4	
007564	000000			HLT		:RO!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
 :TEST 110 100000 -2 SHIFT BY 15. = 77777 0 PS = 2  
 :\*\*\*\*\*

007566	010701			SCOPE		
007570	012700	100000		NOV	0100000,x0	:LOAD RO WITH 100000
007574	012701	177776		NOV	0-2,x0!1	:LOAD RO!1 WITH -2
007600	000241			CLC		
007602	073027	000017		ASHC	015,x0	:SHIFT RO,RO!1 BY 15.
007606	013767	177776	005134	NOV	0!PS,PSH	:SAVE PS
007614	122767	000002	005126	CHPB	02,PSH	:IS THE PS 2?
007622	001401			BEG	.+4	
007624	000000			HLT		:THE PS IS NOT EQUAL TO 2
007626	022700	077777		CHPB	077777,x0	:IS THE RESULT 77777?
007632	001401			BEG	.+4	
007634	000000			HLT		:RO IS NOT EQUAL TO 77777
007636	022701	000000		CHPB	00,x0!1	:IS THE RESULT 0?
007642	001401			BEG	.+4	
007644	000000			HLT		:RO!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 111 0 125252 SHIFTED BY 15. = 52525 0 PS = 0  
\*\*\*\*\*

007646	010701			SCOPE		
007650	012700	000000		MOV	80,XD	:LOAD R0 WITH 0
007654	012701	125252		MOV	8125252,XD!1	:LOAD R0!1 WITH 125252
007660	000241			CLC		
007662	073027	000017		ASHC	815,XD	:SHIFT R0,R0!1 BY 15.
007666	013767	177776	005054	MOV	80,PS,PSH	:SAVE PS
007674	122767	000000	005046	CHPB	80,PSH	:IS THE PS 0?
007702	001401			BEG	.+4	
007704	000000			HLT		:THE PS IS NOT EQUAL TO 0
007706	022700	052525		CHP	852525,XD	:IS THE RESULT 52525?
007712	001401			BEG	.+4	
007714	000000			HLT		:R0 IS NOT EQUAL TO 52525
007716	022701	000000		CHP	80,XD!1	:IS THE RESULT 0?
007722	001401			BEG	.+4	
007724	000000			HLT		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 112 0 125252 SHIFTED BY 16. = 125252 0 PS = 12  
\*\*\*\*\*

007726	010701			SCOPE		
007730	012700	000000		MOV	80,XD	:LOAD R0 WITH 0
007734	012701	125252		MOV	8125252,XD!1	:LOAD R0!1 WITH 125252
007740	000241			CLC		
007742	073027	000020		ASHC	816,XD	:SHIFT R0,R0!1 BY 16.
007746	013767	177776	004774	MOV	80,PS,PSH	:SAVE PS
007754	122767	000012	004766	CHPB	812,PSH	:IS THE PS 12?
007762	001401			BEG	.+4	
007764	000000			HLT		:THE PS IS NOT EQUAL TO 12
007766	022700	125252		CHP	8125252,XD	:IS THE RESULT 125252?
007772	001401			BEG	.+4	
007774	000000			HLT		:R0 IS NOT EQUAL TO 125252
007776	022701	000000		CHP	80,XD!1	:IS THE RESULT 0?
010002	001401			BEG	.+4	
010004	000000			HLT		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 113 0 52525 SHIFTED BY 16. = 52525 0 PS = 0  
\*\*\*\*\*

010006	010701			SCOPE		
010010	012700	000000		MOV	80,XD	:LOAD RD WITH 0
010014	012701	052525		MOV	852525,XD!1	:LOAD RD!1 WITH 52525
010020	000241			CLC		
010022	073027	000020		ASHC	816.,XD	:SHIFT RD,RD!1 BY 16.
010026	013767	177776	004714	MOV	88PS,PSM	:SAVE PS
010034	122767	000000	004706	CHPB	80,PSM	:IS THE PS 0?
010042	001401			BEG	.+4	
010044	000000			HLT		:THE PS IS NOT EQUAL TO 0
010046	022700	052525		CHPB	852525,XD	:IS THE RESULT 52525?
010052	001401			BEG	.+4	
010054	000000			HLT		:RD IS NOT EQUAL TO 52525
010056	022701	000000		CHPB	80,XD!1	:IS THE RESULT 0?
010062	001401			BEG	.+4	
010064	000000			HLT		:RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 114 -1 0 SHIFTED BY 16. = 0 0 PS = 7  
\*\*\*\*\*

010066	010701			SCOPE		
010070	012700	177777		MOV	8-1,XD	:LOAD RD WITH -1
010074	012701	000000		MOV	80,XD!1	:LOAD RD!1 WITH 0
010100	000241			CLC		
010102	073027	000020		ASHC	816.,XD	:SHIFT RD,RD!1 BY 16.
010106	013767	177776	004634	MOV	88PS,PSM	:SAVE PS
010114	122767	000007	004626	CHPB	87,PSM	:IS THE PS 7?
010122	001401			BEG	.+4	
010124	000000			HLT		:THE PS IS NOT EQUAL TO 7
010126	022700	000000		CHPB	80,XD	:IS THE RESULT 0?
010132	001401			BEG	.+4	
010134	000000			HLT		:RD IS NOT EQUAL TO 0
010136	022701	000000		CHPB	80,XD!1	:IS THE RESULT 0?
010142	001401			BEG	.+4	
010144	000000			HLT		:RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
 : TEST 115 1 SHIFTED BY 8. = 400 PS = 0  
 :\*\*\*\*\*

010146	010701			SCOPE		
010150	012701	000000		MOV	8DUMMY,X1	:LOAD R1 WITH DUMMY
010154	012701	000001		MOV	81,X1!1	:LOAD R1!1 WITH 1
010160	000241			CLC		
010162	073127	000010		ASHC	88,X1	:SHIFT R1,R1!1 BY 8.
010166	013767	177776	004554	MOV	8PS,PSH	:SAVE PS
010174	122767	000000	004546	CMPB	80,PSH	:IS THE PS 0?
010202	001401			BEG	.+4	
010204	000000			HLT		:THE PS IS NOT EQUAL TO 0
010206	022701	000400		CMP	8400,X1	:IS THE RESULT 400?
010212	001401			BEG	.+4	
010214	000000			HLT		:R1 IS NOT EQUAL TO 400

\*\*\*\*\*  
 : TEST 116 -1 SHIFTED BY 15. = 100000 PS = 11  
 :\*\*\*\*\*

010216	010701			SCOPE		
010220	012701	000000		MOV	8DUMMY,X1	:LOAD R1 WITH DUMMY
010224	012701	177777		MOV	8-1,X1!1	:LOAD R1!1 WITH -1
010230	000241			CLC		
010232	073127	000017		ASHC	815,X1	:SHIFT R1,R1!1 BY 15.
010236	013767	177776	004504	MOV	8PS,PSH	:SAVE PS
010244	122767	000011	004476	CMPB	811,PSH	:IS THE PS 11?
010252	001401			BEG	.+4	
010254	000000			HLT		:THE PS IS NOT EQUAL TO 11
010256	022701	100000		CMP	8100000,X1	:IS THE RESULT 100000?
010262	001401			BEG	.+4	
010264	000000			HLT		:R1 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 117 52525 SHIFTED BY 0 = 52525 PS = 0  
\*\*\*\*\*

010266	010701			SCOPE		
010270	012701	000000		MOV	#DUMMY,X1	;LOAD R1 WITH DUMMY
010274	012701	052525		MOV	#52525,X1!1	;LOAD R1!1 WITH 52525
010300	000241			CLC		
010302	073127	000000		ASHC	#0,X1	;SHIFT R1,R1!1 BY 0
010306	013767	177776	004434	MOV	#PS,PSH	;SAVE PS
010314	122767	000000	004426	CHPB	#0,PSH	;IS THE PS 0?
010322	001401			BEG	+.4	
010324	000000			HLT		;THE PS IS NOT EQUAL TO 0
010326	022701	052525		CHP	#52525,X1	;IS THE RESULT 52525?
010332	001401			BEG	+.4	
010334	000000			HLT		;R1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 120 20010 SHIFTED BY -13. = 101 PS = 0  
\*\*\*\*\*

010336	010701			SCOPE		
010340	012701	000000		MOV	#DUMMY,X1	;LOAD R1 WITH DUMMY
010344	012701	020010		MOV	#20010,X1!1	;LOAD R1!1 WITH 20010
010350	000241			CLC		
010352	073127	177763		ASHC	#-13,X1	;SHIFT R1,R1!1 BY -13.
010356	013767	177776	004364	MOV	#PS,PSH	;SAVE PS
010364	122767	000000	004356	CHPB	#0,PSH	;IS THE PS 0?
010372	001401			BEG	+.4	
010374	000000			HLT		;THE PS IS NOT EQUAL TO 0
010376	022701	000101		CHP	#101,X1	;IS THE RESULT 101?
010402	001401			BEG	+.4	
010404	000000			HLT		;R1 IS NOT EQUAL TO 101

\*\*\*\*\*  
: TEST 121 -1 SHIFTED BY 16. = 0 PS = 11  
:\*\*\*\*\*

010406	010701			SCOPE		
010410	012701	000000		MOV	0DUPY,X1	:LOAD R1 WITH DUMMY
010414	012701	177777		MOV	0-1,X1!1	:LOAD R1!1 WITH -1
010420	000241			CLC		
010422	073127	000020		ASHC	016,X1	:SHIFT R1,R1!1 BY 16.
010426	013767	177776	004314	MOV	00PS,PSH	:SAVE PS
010434	122767	000011	004306	CHPB	011,PSH	:IS THE PS 11?
010442	001401			BEG	.+4	
010444	000000			HLT		:THE PS IS NOT EQUAL TO 11
010446	022701	000000		CHP	00,X1	:IS THE RESULT 0?
010452	001401			BEG	.+4	
010454	000000			HLT		:R1 IS NOT EQUAL TO 0

\*\*\*\*\*  
: TEST 122 1 SHIFTED BY -1 = 100000 PS = 1  
:\*\*\*\*\*

010456	010701			SCOPE		
010460	012701	000000		MOV	0DUPY,X1	:LOAD R1 WITH DUMMY
010464	012701	000001		MOV	01,X1!1	:LOAD R1!1 WITH 1
010470	000241			CLC		
010472	073127	177777		ASHC	0-1,X1	:SHIFT R1,R1!1 BY -1
010476	013767	177776	004244	MOV	00PS,PSH	:SAVE PS
010504	122767	000001	004236	CHPB	01,PSH	:IS THE PS 1?
010512	001401			BEG	.+4	
010514	000000			HLT		:THE PS IS NOT EQUAL TO 1
010516	022701	100000		CHP	010000,X1	:IS THE RESULT 100000?
010522	001401			BEG	.+4	
010524	000000			HLT		:R1 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 123 125252 SHIFTED BY -16. = 125252 PS = 11  
:\*\*\*\*\*

010553 010701  
010554 012701 000000  
010555 012701 125252  
010556 000241  
010557 073127 177760  
010558 013767 177776 004174  
010559 122767 000011 004166  
010560 001401  
010561 000000  
010562 022701 125252  
010563 001401  
010574 000000

SCOPE  
MOV @DUMMY,X1 ;LOAD R1 WITH DUMMY  
MOV @125252,X1!1 ;LOAD R1!1 WITH 125252  
CLC  
ASHC @-16.,X1 ;SHIFT R1,R1!1 BY -16.  
MOV @PS,PSM ;SAVE PS  
CMPB @11,PSM ;IS THE PS 11?  
BEQ .+4  
HLT ;THE PS IS NOT EQUAL TO 11  
CMP @125252,X1 ;IS THE RESULT 125252?  
BEQ .+4  
HLT ;R1 IS NOT EQUAL TO 125252

\*\*\*\*\*  
:TEST 124 -1 0 SHIFTED BY -16. = -1 -1 PS = 10  
:\*\*\*\*\*

010576 010701  
010500 012702 177777  
010504 012703 000000  
010510 000241  
010512 073227 177760  
010516 013767 177776 004124  
010524 122767 000010 004116  
010530 001401  
010536 000000  
010542 022702 177777  
010548 001401  
010554 000000  
010556 022703 177777  
010558 001401  
010559 000000

SCOPE  
MOV @-1,X2 ;LOAD R2 WITH -1  
MOV @0,X2!1 ;LOAD R2!1 WITH 0  
CLC  
ASHC @-16.,X2 ;SHIFT R2,R2!1 BY -16.  
MOV @PS,PSM ;SAVE PS  
CMPB @10,PSM ;IS THE PS 10?  
BEQ .+4  
HLT ;THE PS IS NOT EQUAL TO 10  
CMP @-1,X2 ;IS THE RESULT -1?  
BEQ .+4  
HLT ;R2 IS NOT EQUAL TO -1  
CMP @-1,X2!1 ;IS THE RESULT -1?  
BEQ .+4  
HLT ;R2!1 IS NOT EQUAL TO -1

\*\*\*\*\*  
:TEST 125 125252 0 SHIFTED BY -16. = -1 125252 PS = 10  
\*\*\*\*\*

010656	010701			SCOPE		
010660	012702	125252		MOV	0125252,x2	:LOAD R2 WITH 125252
010664	012703	000000		MOV	00,x2!1	:LOAD R2!1 WITH 0
010670	000241			CLC		
010672	073227	177760		ASHC	0-16,x2	:SHIFT R2,R2!1 BY -16.
010676	013767	177776	004044	MOV	00PS,PSM	:SAVE PS
010704	122767	000010	004036	CMPB	010,PSM	:IS THE PS 10?
010712	001401			BEG	.+4	
010714	000000			HLT		:THE PS IS NOT EQUAL TO 10
010716	022702	177777		CMP	0-1,x2	:IS THE RESULT -1?
010722	001401			BEG	.+4	
010724	000000			HLT		:R2 IS NOT EQUAL TO -1
010726	022703	125252		CMP	0125252,x2!1	:IS THE RESULT 125252?
010732	001401			BEG	.+4	
010734	000000			HLT		:R2!1 IS NOT EQUAL TO 125252

\*\*\*\*\*  
:TEST 126 52525 0 SHIFTED BY -16. = 0 52525 PS = 0  
\*\*\*\*\*

010736	010701			SCOPE		
010740	012702	052525		MOV	052525,x2	:LOAD R2 WITH 52525
010744	012703	000000		MOV	00,x2!1	:LOAD R2!1 WITH 0
010750	000241			CLC		
010752	073227	177760		ASHC	0-16,x2	:SHIFT R2,R2!1 BY -16.
010756	013767	177776	003764	MOV	00PS,PSM	:SAVE PS
010764	122767	000000	003756	CMPB	00,PSM	:IS THE PS 0?
010772	001401			BEG	.+4	
010774	000000			HLT		:THE PS IS NOT EQUAL TO 0
010776	022702	000000		CMP	00,x2	:IS THE RESULT 0?
011002	001401			BEG	.+4	
011004	000000			HLT		:R2 IS NOT EQUAL TO 0
011006	022703	052525		CMP	052525,x2!1	:IS THE RESULT 52525?
011012	001401			BEG	.+4	
011014	000000			HLT		:R2!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 127 100000 0 SHIFTED BY -32. = -1 -1 PS = 11  
\*\*\*\*\*

011016	010701			SCOPE		
011020	012702	100000		MOV	0100000,x2	:LOAD R2 WITH 100000
011024	012703	000000		MOV	00,x2!1	:LOAD R2!1 WITH 0
011030	000241			CLC		
011032	073227	177740		ASHC	0-32,x2	:SHIFT R2,R2!1 BY -32.
011036	013767	177776	003704	MOV	00PS,PSM	:SAVE PS
011044	122767	000011	003676	CHPB	011,PSM	:IS THE PS 11?
011052	001401			BEG	.+4	
011054	000000			HLT		:THE PS IS NOT EQUAL TO 11
011056	022702	177777		CHP	0-1,x2	:IS THE RESULT -1?
011062	001401			BEG	.+4	
011064	000000			HLT		:R2 IS NOT EQUAL TO -1
011066	022703	177777		CHP	0-1,x2!1	:IS THE RESULT -1?
011072	001401			BEG	.+4	
011074	000000			HLT		:R2!1 IS NOT EQUAL TO -1

\*\*\*\*\*  
:TEST 130 0 -1 SHIFTED BY 15. = 77777 100000 PS = 0  
\*\*\*\*\*

011076	010701			SCOPE		
011100	012702	000000		MOV	00,x2	:LOAD R2 WITH 0
011104	012703	177777		MOV	0-1,x2!1	:LOAD R2!1 WITH -1
011110	000241			CLC		
011112	073227	000017		ASHC	015,x2	:SHIFT R2,R2!1 BY 15.
011116	013767	177776	003624	MOV	00PS,PSM	:SAVE PS
011124	122767	000000	003616	CHPB	00,PSM	:IS THE PS 0?
011132	001401			BEG	.+4	
011134	000000			HLT		:THE PS IS NOT EQUAL TO 0
011136	022702	077777		CHP	077777,x2	:IS THE RESULT 77777?
011142	001401			BEG	.+4	
011144	000000			HLT		:R2 IS NOT EQUAL TO 77777
011146	022703	100000		CHP	0100000,x2!1	:IS THE RESULT 100000?
011152	001401			BEG	.+4	
011154	000000			HLT		:R2!1 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 131 0 -1 SHIFTED BY 16. = -1 0 PS = 12  
:\*\*\*\*\*

011156	010701			SCOPE		
011160	012702	000000		MOV	00,x2	;LOAD R2 WITH 0
011164	012703	177777		MOV	0-1,x2!1	;LOAD R2!1 WITH -1
011170	000241			CLC		
011172	073227	000020		ASHC	016.,x2	;SHIFT R2,R2!1 BY 16.
011176	013767	177776	003544	MOV	00PS,PSM	;SAVE PS
011204	122767	000012	003536	CMPB	012,PSM	;IS THE PS 12?
011212	001401			BEQ	.+4	
011214	000000			HLT		;THE PS IS NOT EQUAL TO 12
011216	022702	177777		CMP	0-1,x2	;IS THE RESULT -1?
011222	001401			BEQ	.+4	
011224	000000			HLT		;R2 IS NOT EQUAL TO -1
011226	022703	000000		CMP	00,x2!1	;IS THE RESULT 0?
011232	001401			BEQ	.+4	
011234	000000			HLT		;R2!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 132 100000 -2 SHIFTED BY 15. = 77777 0 PS = 2  
:\*\*\*\*\*

011236	010701			SCOPE		
011240	012702	100000		MOV	0100000,x2	;LOAD R2 WITH 100000
011244	012703	177776		MOV	0-2,x2!1	;LOAD R2!1 WITH -2
011250	000241			CLC		
011252	073227	000017		ASHC	015.,x2	;SHIFT R2,R2!1 BY 15.
011256	013767	177776	003464	MOV	00PS,PSM	;SAVE PS
011264	122767	000002	003456	CMPB	02,PSM	;IS THE PS 2?
011272	001401			BEQ	.+4	
011274	000000			HLT		;THE PS IS NOT EQUAL TO 2
011276	022702	077777		CMP	077777,x2	;IS THE RESULT 77777?
011302	001401			BEQ	.+4	
011304	000000			HLT		;R2 IS NOT EQUAL TO 77777
011306	022703	000000		CMP	00,x2!1	;IS THE RESULT 0?
011312	001401			BEQ	.+4	
011314	000000			HLT		;R2!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 133 0 125252 SHIFTED BY 15. = 52525 0 PS = 0  
\*\*\*\*\*

011316	010701			SCOPE		
011320	012702	000000		MOV	00,x2	;LOAD R2 WITH 0
011324	012703	125252		MOV	0125252,x2!1	;LOAD R2!1 WITH 125252
011330	000241			CLC		
011332	073227	000017		ASHC	015,x2	;SHIFT R2,R2!1 BY 15.
011336	013767	177776	003404	MOV	00PS,PSW	;SAVE PS
011344	122767	000000	003376	CHPB	00,PSW	;IS THE PS 0?
011352	001401			BEQ	.+4	
011354	000000			HLT		;THE PS IS NOT EQUAL TO 0
011356	022702	052525		CHP	052525,x2	;IS THE RESULT 52525?
011362	001401			BEQ	.+4	
011364	000000			HLT		;R2 IS NOT EQUAL TO 52525
011366	022703	000000		CHP	00,x2!1	;IS THE RESULT 0?
011372	001401			BEQ	.+4	
011374	000000			HLT		;R2!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 134 0 125252 SHIFTED BY 16. = 125252 0 PS = 12  
\*\*\*\*\*

011376	010701			SCOPE		
011400	012702	000000		MOV	00,x2	;LOAD R2 WITH 0
011404	012703	125252		MOV	0125252,x2!1	;LOAD R2!1 WITH 125252
011410	000241			CLC		
011412	073227	000020		ASHC	016,x2	;SHIFT R2,R2!1 BY 16.
011416	013767	177776	003324	MOV	00PS,PSW	;SAVE PS
011424	122767	000012	003316	CHPB	012,PSW	;IS THE PS 12?
011432	001401			BEQ	.+4	
011434	000000			HLT		;THE PS IS NOT EQUAL TO 12
011436	022702	125252		CHP	0125252,x2	;IS THE RESULT 125252?
011442	001401			BEQ	.+4	
011444	000000			HLT		;R2 IS NOT EQUAL TO 125252
011446	022703	000000		CHP	00,x2!1	;IS THE RESULT 0?
011452	001401			BEQ	.+4	
011454	000000			HLT		;R2!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 135 0 52525 SHIFTED BY 16. = 52525 0 PS = 0  
:\*\*\*\*\*

011456	010701			SCOPE		
011460	012702	000000		MOV	#0,x2	:LOAD R2 WITH 0
011464	012703	052525		MOV	#52525,x2!1	:LOAD R2!1 WITH 52525
011470	000241			CLC		
011472	073227	000020		ASHC	#16,,x2	:SHIFT R2,R2!1 BY 16.
011476	013767	177776	003244	MOV	#PS,PSH	:SAVE PS
011504	122767	000000	003236	CHPB	#0,PSH	:IS THE PS 0?
011512	001401			BEQ	+.4	
011514	000000			HLT		:THE PS IS NOT EQUAL TO 0
011516	022702	052525		CHP	#52525,x2	:IS THE RESULT 52525?
011522	001401			BEQ	+.4	
011524	000000			HLT		:R2 IS NOT EQUAL TO 52525
011526	022703	000000		CHP	#0,x2!1	:IS THE RESULT 0?
011532	001401			BEQ	+.4	
011534	000000			HLT		:R2!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 136 -1 0 SHIFTED BY 16. = 0 0 PS = 7  
:\*\*\*\*\*

011536	010701			SCOPE		
011540	012702	177777		MOV	#-1,x2	:LOAD R2 WITH -1
011544	012703	000000		MOV	#0,x2!1	:LOAD R2!1 WITH 0
011550	000241			CLC		
011552	073227	000020		ASHC	#16,,x2	:SHIFT R2,R2!1 BY 16.
011556	013767	177776	003164	MOV	#PS,PSH	:SAVE PS
011564	122767	000007	003156	CHPB	#7,PSH	:IS THE PS 7?
011572	001401			BEQ	+.4	
011574	000000			HLT		:THE PS IS NOT EQUAL TO 7
011576	022702	000000		CHP	#0,x2	:IS THE RESULT 0?
011602	001401			BEQ	+.4	
011604	000000			HLT		:R2 IS NOT EQUAL TO 0
011606	022703	000000		CHP	#0,x2!1	:IS THE RESULT 0?
011612	001401			BEQ	+.4	
011614	000000			HLT		:R2!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 137 1 SHIFTED BY 8. = 400 PS = 0  
\*\*\*\*\*

011616	010701			SCOPE		
011620	012703	000000		MOV	#DUMMY,%3	;LOAD R3 WITH DUMMY
011624	012703	000001		MOV	#1,%3!1	;LOAD R3!1 WITH 1
011630	000241			CLC		
011632	073327	000010		ASHC	#8,%3	;SHIFT R3,R3!1 BY 8.
011636	013767	177776	003104	MOV	@#PS,PSW	;SAVE PS
011644	122767	000000	003076	CMPB	#0,PSW	;IS THE PS 0?
011652	001401			BEQ	+.4	
011654	000000			HLT		;THE PS IS NOT EQUAL TO 0
011656	022703	000400		CMP	#400,%3	;IS THE RESULT 400?
011662	001401			BEQ	+.4	
011664	000000			HLT		;R3 IS NOT EQUAL TO 400

\*\*\*\*\*  
:TEST 140 -1 SHIFTED BY 15. = 100000 PS = 11  
\*\*\*\*\*

011666	010701			SCOPE		
011670	012703	000000		MOV	#DUMMY,%3	;LOAD R3 WITH DUMMY
011674	012703	177777		MOV	#-1,%3!1	;LOAD R3!1 WITH -1
011700	000241			CLC		
011702	073327	000017		ASHC	#15,%3	;SHIFT R3,R3!1 BY 15.
011706	013767	177776	003034	MOV	@#PS,PSW	;SAVE PS
011714	122767	000011	003026	CMPB	#11,PSW	;IS THE PS 11?
011722	001401			BEQ	+.4	
011724	000000			HLT		;THE PS IS NOT EQUAL TO 11
011726	022703	100000		CMP	#100000,%3	;IS THE RESULT 100000?
011732	001401			BEQ	+.4	
011734	000000			HLT		;R3 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 141 52525 SHIFTED BY 0 = 52525 PS = 0  
\*\*\*\*\*

011736	010701			SCOPE		
011740	012703	000000		MOV	#DUMMY,X3	;LOAD R3 WITH DUMMY
011744	012703	052525		MOV	#52525,X3!1	;LOAD R3!1 WITH 52525
011750	000241			CLC		
011752	073327	000000		ASHC	#0,X3	;SHIFT R3,R3!1 BY 0
011756	013767	177776	002764	MOV	#PS,PSH	;SAVE PS
011764	122767	000000	002756	CMPB	#0,PSH	;IS THE PS 0?
011772	001401			BEQ	.+4	
011774	000000			HLT		;THE PS IS NOT EQUAL TO 0
011776	022703	052525		CMP	#52525,X3	;IS THE RESULT 52525?
012002	001401			BEQ	.+4	
012004	000000			HLT		;R3 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 142 20010 SHIFTED BY -13. = 101 PS = 0  
\*\*\*\*\*

012006	010701			SCOPE		
012010	012703	000000		MOV	#DUMMY,X3	;LOAD R3 WITH DUMMY
012014	012703	020010		MOV	#20010,X3!1	;LOAD R3!1 WITH 20010
012020	000241			CLC		
012022	073327	177763		ASHC	#-13,X3	;SHIFT R3,R3!1 BY -13.
012026	013767	177776	002714	MOV	#PS,PSH	;SAVE PS
012034	122767	000000	002706	CMPB	#0,PSH	;IS THE PS 0?
012042	001401			BEQ	.+4	
012044	000000			HLT		;THE PS IS NOT EQUAL TO 0
012046	022703	000101		CMP	#101,X3	;IS THE RESULT 101?
012052	001401			BEQ	.+4	
012054	000000			HLT		;R3 IS NOT EQUAL TO 101

\*\*\*\*\*  
:TEST 143 -1 SHIFTED BY 16. = 0 PS = 11  
:\*\*\*\*\*

012056	010701			SCOPE		
012060	012703	000000		MOV	0DUMMY,X3	:LOAD R3 WITH DUMMY
012064	012703	177777		MOV	0-1,X3!1	:LOAD R3!1 WITH -1
012070	000241			CLC		
012072	073327	000020		ASHC	016,X3	:SHIFT R3,R3!1 BY 16.
012076	013767	177776	002644	MOV	0PS,PSH	:SAVE PS
012104	122767	000011	002636	CHPB	011,PSH	:IS THE PS 11?
012112	001401			BEG	+.4	
012114	000000			HLT		:THE PS IS NOT EQUAL TO 11
012116	022703	000000		CHP	00,X3	:IS THE RESULT 0?
012122	001401			BEG	+.4	
012124	000000			HLT		:R3 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 144 1 SHIFTED BY -1 = 100000 PS = 1  
:\*\*\*\*\*

012126	010701			SCOPE		
012130	012703	000000		MOV	1DUMMY,X3	:LOAD R3 WITH DUMMY
012134	012703	000001		MOV	11,X3!1	:LOAD R3!1 WITH 1
012140	000241			CLC		
012142	073327	177777		ASHC	0-1,X3	:SHIFT R3,R3!1 BY -1
012146	013767	177776	002574	MOV	0PS,PSH	:SAVE PS
012154	122767	000001	002566	CHPB	01,PSH	:IS THE PS 1?
012162	001401			BEG	+.4	
012164	000000			HLT		:THE PS IS NOT EQUAL TO 1
012166	022703	100000		CHP	010000,X3	:IS THE RESULT 100000?
012172	001401			BEG	+.4	
012174	000000			HLT		:R3 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 145 125252 SHIFTED BY -16. = 125252 PS = 11  
:\*\*\*\*\*

012176	010701			SCOPE		
012177	012703	000000		NOV	0DUMMY,X3	:LOAD R3 WITH DUMMY
012178	012703	125252		NOV	0125252,X3!1	:LOAD R3!1 WITH 125252
012179	000001			CLC		
012180	073427	177760		ASHC	0-16,X3	:SHIFT R3,R3!1 BY -16.
012181	013767	177776	002524	NOV	00PS,PSH	:SAVE PS
012182	122767	000011	002516	CHPB	011,PSH	:IS THE PS 11?
012183	001401			H.BEQ	.+4	
012184	000000			H.LT		:THE PS IS NOT EQUAL TO 11
012185	022703	125252		CHP	0125252,X3	:IS THE RESULT 125252?
012186	001401			H.BEQ	.+4	
012187	000000			H.LT		:R3 IS NOT EQUAL TO 125252

\*\*\*\*\*  
:TEST 146 -1 0 SHIFTED BY -16. = -1 -1 PS = 10  
:\*\*\*\*\*

012216	010701			SCOPE		
012217	012704	177777		NOV	0-1,X4	:LOAD R4 WITH -1
012218	012705	000000		NOV	00,X4!1	:LOAD R4!1 WITH 0
012219	000001			CLC		
012220	073427	177760		ASHC	0-16,X4	:SHIFT R4,R4!1 BY -16.
012221	013767	177776	002454	NOV	00PS,PSH	:SAVE PS
012222	122767	000010	002446	CHPB	010,PSH	:IS THE PS 10?
012223	001401			H.BEQ	.+4	
012224	000000			H.LT		:THE PS IS NOT EQUAL TO 10
012225	022704	177777		CHP	0-1,X4	:IS THE RESULT -1?
012226	001401			H.BEQ	.+4	
012227	000000			H.LT		:R4 IS NOT EQUAL TO -1
012228	022705	177777		CHP	0-1,X4!1	:IS THE RESULT -1?
012229	001401			H.BEQ	.+4	
012230	000000			H.LT		:R4!1 IS NOT EQUAL TO -1

\*\*\*\*\*  
:TEST 147 125252 0 SHIFTED BY -16. = -1 125252 PS = 10  
:\*\*\*\*\*

012336	010701			SCOPE		
012338	012704	125252		NOV	0125252,X4	:LOAD R4 WITH 125252
012339	012705	000000		NOV	00,X4!1	:LOAD R4!1 WITH 0
012340	000241			CLC		
012348	073427	177760		ASHC	0-16,X4	:SHIFT R4,R4!1 BY -16.
012349	013767	177776	002374	NOV	00PS,PSH	:SAVE PS
012350	122767	000010	002366	CHPB	010,PSH	:IS THE PS 10?
012351	001401			BEG	.+4	
012352	000000			HLT		:THE PS IS NOT EQUAL TO 10
012356	022704	177777		CHP	0-1,X4	:IS THE RESULT -1?
012372	001401			BEG	.+4	
012373	000000			HLT		:R4 IS NOT EQUAL TO -1
012376	022705	125252		CHP	0125252,X4!1	:IS THE RESULT 125252?
012402	001401			BEG	.+4	
012404	000000			HLT		:R4!1 IS NOT EQUAL TO 125252

\*\*\*\*\*  
:TEST 150 52525 0 SHIFTED BY -16. = 0 52525 PS = 0  
:\*\*\*\*\*

012406	010701			SCOPE		
012410	012704	052525		NOV	052525,X4	:LOAD R4 WITH 52525
012414	012705	000000		NOV	00,X4!1	:LOAD R4!1 WITH 0
012415	000241			CLC		
012418	073427	177760		ASHC	0-16,X4	:SHIFT R4,R4!1 BY -16.
012419	013767	177776	002314	NOV	00PS,PSH	:SAVE PS
012420	122767	000000	002306	CHPB	00,PSH	:IS THE PS 0?
012421	001401			BEG	.+4	
012422	000000			HLT		:THE PS IS NOT EQUAL TO 0
012426	022704	000000		CHP	00,X4	:IS THE RESULT 0?
012427	001401			BEG	.+4	
012428	000000			HLT		:R4 IS NOT EQUAL TO 0
012456	022705	052525		CHP	052525,X4!1	:IS THE RESULT 52525?
012462	001401			BEG	.+4	
012464	000000			HLT		:R4!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 151 100000 0 SHIFTED BY -32. = -1 -1 PS = 11  
:\*\*\*\*\*

012701	010701			SCOPE		
012704	012704	100000		MOV	0100000,x4	:LOAD R4 WITH 100000
012705	012705	000000		MOV	00,x4!1	:LOAD R4!1 WITH 0
012706	000241			CLC		
012707	073427	177740		ASHC	0-32,x4	:SHIFT R4,R4!1 BY -32.
012708	013767	177776	002234	MOV	00PS,PSM	:SAVE PS
012709	122767	000011	002226	CHPB	01,PSM	:IS THE PS 11?
012710	001401			BEG	.+4	
012711	000000			HLT		
012712	022704	177777		CHPB	0-1,x4	:THE PS IS NOT EQUAL TO 11
012713	001401			BEG	.+4	:IS THE RESULT -1?
012714	000000			HLT		
012715	022705	177777		CHPB	0-1,x4!1	:R4 IS NOT EQUAL TO -1
012716	001401			BEG	.+4	:IS THE RESULT -1?
012717	000000			HLT		:R4!1 IS NOT EQUAL TO -1

\*\*\*\*\*  
:TEST 152 0 -1 SHIFTED BY 15. = 77777 100000 PS = 0  
:\*\*\*\*\*

012701	010701			SCOPE		
012704	012704	000000		MOV	00,x4	:LOAD R4 WITH 0
012705	012705	177777		MOV	0-1,x4!1	:LOAD R4!1 WITH -1
012706	000241			CLC		
012707	073427	000017		ASHC	015,x4	:SHIFT R4,R4!1 BY 15.
012708	013767	177776	002154	MOV	00PS,PSM	:SAVE PS
012709	122767	000000	002146	CHPB	00,PSM	:IS THE PS 0?
012710	001401			BEG	.+4	
012711	000000			HLT		
012712	022704	077777		CHPB	077777,x4	:THE PS IS NOT EQUAL TO 0
012713	001401			BEG	.+4	:IS THE RESULT 77777?
012714	000000			HLT		
012715	022705	100000		CHPB	0100000,x4!1	:R4 IS NOT EQUAL TO 77777
012716	001401			BEG	.+4	:IS THE RESULT 100000?
012717	000000			HLT		:R4!1 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 153 0 -1 SHIFTED BY 16. = -1 0 PS = 12  
\*\*\*\*\*

012626	010701			SCOPE		
012630	012704	000000		MOV	80,x4	:LOAD R4 WITH 0
012634	012705	177777		MOV	8-1,x4!1	:LOAD R4!1 WITH -1
012640	000241			CLC		
012642	073427	000020		ASHC	816,x4	:SHIFT R4,R4!1 BY 16.
012646	013767	177776	002074	MOV	8PS,PSM	:SAVE PS
012654	122767	000012	002066	CMPB	812,PSM	:IS THE PS 12?
012662	001401			BEG	.+4	
012664	000000			HLT		:THE PS IS NOT EQUAL TO 12
012666	022704	177777		CMP	8-1,x4	:IS THE RESULT -1?
012672	001401			BEG	.+4	
012674	000000			HLT		:R4 IS NOT EQUAL TO -1
012676	022705	000000		CMP	80,x4!1	:IS THE RESULT 0?
012702	001401			BEG	.+4	
012704	000000			HLT		:R4!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 154 100000 -2 SHIFTED BY 15. = 77777 0 PS = 2  
\*\*\*\*\*

012706	010701			SCOPE		
012710	012704	100000		MOV	810000,x4	:LOAD R4 WITH 100000
012714	012705	177776		MOV	8-2,x4!1	:LOAD R4!1 WITH -2
012720	000241			CLC		
012722	073427	000017		ASHC	815,x4	:SHIFT R4,R4!1 BY 15.
012726	013767	177776	002014	MOV	8PS,PSM	:SAVE PS
012734	122767	000002	002006	CMPB	82,PSM	:IS THE PS 2?
012742	001401			BEG	.+4	
012744	000000			HLT		:THE PS IS NOT EQUAL TO 2
012746	022704	077777		CMP	877777,x4	:IS THE RESULT 77777?
012752	001401			BEG	.+4	
012754	000000			HLT		:R4 IS NOT EQUAL TO 77777
012756	022705	000000		CMP	80,x4!1	:IS THE RESULT 0?
012762	001401			BEG	.+4	
012764	000000			HLT		:R4!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 155 0 125252 SHIFTED BY 15. = 52525 0 PS = 0  
\*\*\*\*\*

012766	010701			SCOPE		
012770	012704	000000		MOV	80,x4	:LOAD R4 WITH 0
012774	012706	125252		MOV	8125252,x4!1	:LOAD R4!1 WITH 125252
013000	000241			CLC		
013002	073427	000017		ASHC	815,x4	:SHIFT R4,R4!1 BY 15.
013006	013767	177776	001734	MOV	8PS,PSH	:SAVE PS
013014	122767	000000	001726	CMPB	80,PSH	:IS THE PS 0?
013022	001401			BEQ	.+4	
013024	000000			HLT		:THE PS IS NOT EQUAL TO 0
013026	022704	052525		CMP	852525,x4	:IS THE RESULT 52525?
013032	001401			BEQ	.+4	
013034	000000			HLT		:R4 IS NOT EQUAL TO 52525
013036	022705	000000		CMP	80,x4!1	:IS THE RESULT 0?
013042	001401			BEQ	.+4	
013044	000000			HLT		:R4!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 156 0 125252 SHIFTED BY 16. = 125252 0 PS = 12  
\*\*\*\*\*

013046	010701			SCOPE		
013050	012704	000000		MOV	80,x4	:LOAD R4 WITH 0
013054	012706	125252		MOV	8125252,x4!1	:LOAD R4!1 WITH 125252
013060	000241			CLC		
013062	073427	000020		ASHC	816,x4	:SHIFT R4,R4!1 BY 16.
013066	013767	177776	001654	MOV	8PS,PSH	:SAVE PS
013074	122767	000012	001646	CMPB	812,PSH	:IS THE PS 12?
013102	001401			BEQ	.+4	
013104	000000			HLT		:THE PS IS NOT EQUAL TO 12
013106	022704	125252		CMP	8125252,x4	:IS THE RESULT 125252?
013112	001401			BEQ	.+4	
013114	000000			HLT		:R4 IS NOT EQUAL TO 125252
013116	022705	000000		CMP	80,x4!1	:IS THE RESULT 0?
013122	001401			BEQ	.+4	
013124	000000			HLT		:R4!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 157 0 52525 SHIFTED BY 16. = 52525 0 PS = 0  
\*\*\*\*\*

013126	010701			SCOPE		
013130	012704	000000		MOV	80,X4	:LOAD R4 WITH 0
013134	012705	052525		MOV	852525,X4!1	:LOAD R4!1 WITH 52525
013140	000241			CLC		
013142	073427	000020		ASHC	816,X4	:SHIFT R4,R4!1 BY 16.
013146	013767	177776	001574	MOV	80PS,PSM	:SAVE PS
013154	122767	000000	001566	CMPB	80,PSM	:IS THE PS 0?
013162	001401			BEQ	.+4	
013164	000000			HLT		:THE PS IS NOT EQUAL TO 0
013166	022704	052525		CMP	852525,X4	:IS THE RESULT 52525?
013172	001401			BEQ	.+4	
013174	000000			HLT		:R4 IS NOT EQUAL TO 52525
013176	022705	000000		CMP	80,X4!1	:IS THE RESULT 0?
013202	001401			BEQ	.+4	
013204	000000			HLT		:R4!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 160 -1 0 SHIFTED BY 16. = 0 0 PS = 7  
\*\*\*\*\*

013206	010701			SCOPE		
013210	012704	177777		MOV	8-1,X4	:LOAD R4 WITH -1
013214	012705	000000		MOV	80,X4!1	:LOAD R4!1 WITH 0
013220	000241			CLC		
013222	073427	000020		ASHC	816,X4	:SHIFT R4,R4!1 BY 16.
013226	013767	177776	001514	MOV	80PS,PSM	:SAVE PS
013234	122767	000007	001506	CMPB	87,PSM	:IS THE PS 7?
013242	001401			BEQ	.+4	
013244	000000			HLT		:THE PS IS NOT EQUAL TO 7
013246	022704	000000		CMP	80,X4	:IS THE RESULT 0?
013252	001401			BEQ	.+4	
013254	000000			HLT		:R4 IS NOT EQUAL TO 0
013256	022705	000000		CMP	80,X4!1	:IS THE RESULT 0?
013262	001401			BEQ	.+4	
013264	000000			HLT		:R4!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
 : TEST 161 1 SHIFTED BY 8. = 400 PS = 0  
 :\*\*\*\*\*

013266	010701			SCOPE		
013270	012705	000000		MOV	@DUMMY,XS	:LOAD RS WITH DUMMY
013274	012705	000001		MOV	@1,XS!1	:LOAD RS!1 WITH 1
013300	000241			CLC		
013302	073527	000010		ASHC	@8,XS	:SHIFT RS,RS!1 BY 8.
013306	013767	177776	001434	MOV	@PS,PSH	:SAVE PS
013314	122767	000000	001426	CHPB	@0,PSH	:IS THE PS 0?
013322	001401			BEQ	.+4	
013324	000000			HLT		:THE PS IS NOT EQUAL TO 0
013326	022705	000400		CHP	@400,XS	:IS THE RESULT 400?
013332	001401			BEQ	.+4	
013334	000000			HLT		:RS IS NOT EQUAL TO 400

\*\*\*\*\*  
 : TEST 162 -1 SHIFTED BY 15. = 100000 PS = 11  
 :\*\*\*\*\*

013336	010701			SCOPE		
013340	012705	000000		MOV	@DUMMY,XS	:LOAD RS WITH DUMMY
013344	012705	177777		MOV	@-1,XS!1	:LOAD RS!1 WITH -1
013350	000241			CLC		
013352	073527	000017		ASHC	@15,XS	:SHIFT RS,RS!1 BY 15.
013356	013767	177776	001364	MOV	@PS,PSH	:SAVE PS
013364	122767	000011	001356	CHPB	@11,PSH	:IS THE PS 11?
013372	001401			BEQ	.+4	
013374	000000			HLT		:THE PS IS NOT EQUAL TO 11
013376	022705	100000		CHP	@100000,XS	:IS THE RESULT 100000?
013402	001401			BEQ	.+4	
013404	000000			HLT		:RS IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 163 52525 SHIFTED BY 0 = 52525 PS = 0  
\*\*\*\*\*

013406	010701			SCOPE		
013410	012705	000000		MOV	#DUMMY,XS	:LOAD RS WITH DUMMY
013414	012705	052525		MOV	#52525,XS!1	:LOAD RS!1 WITH 52525
013420	000241			CLC		
013422	073527	000000		ASHC	#0,XS	:SHIFT RS,RS!1 BY 0
013426	013767	177776	001314	MOV	2#PS,PSH	:SAVE PS
013434	122767	000000	001306	CHPB	#0,PSH	:IS THE PS 0?
013442	001401			BEG	+.4	
013444	000000			HLT		:THE PS IS NOT EQUAL TO 0
013446	022705	052525		CHP	#52525,XS	:IS THE RESULT 52525?
013452	001401			BEG	+.4	
013454	000000			HLT		:RS IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 164 20010 SHIFTED BY -13. = 101 PS = 0  
\*\*\*\*\*

013456	010701			SCOPE		
013460	012705	000000		MOV	#DUMMY,XS	:LOAD RS WITH DUMMY
013464	012705	020010		MOV	#20010,XS!1	:LOAD RS!1 WITH 20010
013470	000241			CLC		
013472	073527	177763		ASHC	#-13,XS	:SHIFT RS,RS!1 BY -13.
013476	013767	177776	001244	MOV	2#PS,PSH	:SAVE PS
013504	122767	000000	001236	CHPB	#0,PSH	:IS THE PS 0?
013512	001401			BEG	+.4	
013514	000000			HLT		:THE PS IS NOT EQUAL TO 0
013516	022705	000101		CHP	#101,XS	:IS THE RESULT 101?
013522	001401			BEG	+.4	
013524	000000			HLT		:RS IS NOT EQUAL TO 101

\*\*\*\*\*  
:TEST 165 -1 SHIFTED BY 16. = 0 PS = 11  
:\*\*\*\*\*

013526	010701			SCOPE		
013530	012705	000000		MOV	#DUMMY,XS	:LOAD RS WITH DUMMY
013534	012705	177777		MOV	#-1,XS!1	:LOAD RS!1 WITH -1
013540	000241			CLC		
013542	073527	000020		ASHC	#16,XS	:SHIFT RS,RS!1 BY 16.
013546	013767	177776	001174	MOV	#PS,PSW	:SAVE PS
013554	122767	000011	001166	CMPB	#1,PSW	:IS THE PS 11?
013562	001401			BEG	.+4	
013564	000000			HLT		:THE PS IS NOT EQUAL TO 11
013566	022705	000000		CMP	#0,XS	:IS THE RESULT 0?
013572	001401			BEG	.+4	
013574	000000			HLT		:RS IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 166 1 SHIFTED BY -1 = 10000 PS = 1  
:\*\*\*\*\*

013576	010701			SCOPE		
013600	012705	000000		MOV	#DUMMY,XS	:LOAD RS WITH DUMMY
013604	012705	000001		MOV	#1,XS!1	:LOAD RS!1 WITH 1
013610	000241			CLC		
013612	073527	177777		ASHC	#-1,XS	:SHIFT RS,RS!1 BY -1
013616	013767	177776	001124	MOV	#PS,PSW	:SAVE PS
013624	122767	000001	001116	CMPB	#1,PSW	:IS THE PS 1?
013632	001401			BEG	.+4	
013634	000000			HLT		:THE PS IS NOT EQUAL TO 1
013636	022705	100000		CMP	#10000,XS	:IS THE RESULT 10000?
013642	001401			BEG	.+4	
013644	000000			HLT		:RS IS NOT EQUAL TO 10000

\*\*\*\*\*  
:TEST 167 125252 SHIFTED BY -16. = 125252 PS = 11  
:\*\*\*\*\*

013646	010701			SCOPE		
013650	012705	000000		MOV	#DUMMY,X5	:LOAD R5 WITH DUMMY
013654	012705	125252		MOV	#125252,X5!1	:LOAD R5!1 WITH 125252
013660	000241			CLC		
013662	073527	177760		ASHC	#-16,X5	:SHIFT R5,R5!1 BY -16.
013666	013767	177776	001054	MOV	#PS,PSH	:SAVE PS
013674	122767	000011	001046	CHPB	#11,PSH	:IS THE PS 11?
013702	001401			BEQ	.+4	
013704	000000			HLT		:THE PS IS NOT EQUAL TO 11
013706	022705	125252		CHP	#125252,X5	:IS THE RESULT 125252?
013712	001401			BEQ	.+4	
013714	000000			HLT		:R5 IS NOT EQUAL TO 125252

013716	012702	177771		MOV	#-7,X2	
013722	012703	014754		MOV	#S1,X3	
013726	012704	014756		MOV	#S2,X4	

\*\*\*\*\*  
:TEST 170 125252 125252 SHIFTED BY S1 = 177525 52525 PS = 10  
:\*\*\*\*\*

013732	010701			SCOPE		
013734	012700	125252		MOV	#125252,X0	:LOAD R0 WITH 125252
013740	012701	125252		MOV	#125252,X0!1	:LOAD R0!1 WITH 125252
013744	000241			CLC		
013746	073067	001002		ASHC	S1,X0	:SHIFT R0,R0!1 BY S1
013752	013767	177776	000770	MOV	#PS,PSH	:SAVE PS
013760	122767	000010	000762	CHPB	#10,PSH	:IS THE PS 10?
013766	001401			BEQ	.+4	
013770	000000			HLT		:THE PS IS NOT EQUAL TO 10
013772	022700	177525		CHP	#177525,X0	:IS THE RESULT 177525?
013776	001401			BEQ	.+4	
014000	000000			HLT		:R0 IS NOT EQUAL TO 177525
014002	022701	052525		CHP	#52525,X0!1	:IS THE RESULT 52525?
014006	001401			BEQ	.+4	
014010	000000			HLT		:R0!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 171 125252 125252 SHIFTED BY 252 = 177525 52525 PS = 10  
:\*\*\*\*\*

014012	010701			SCOPE		
014014	012700	125252		MOV	#125252,%0	;LOAD RO WITH 125252
014020	012701	125252		MOV	#125252,%0!1	;LOAD RO!1 WITH 125252
014024	000241			CLC		
014026	073077	000724		ASHC	252,%0	;SHIFT RO,RO!1 BY 252
014032	013767	177776	000710	MOV	2#PS,PSW	;SAVE PS
014040	122767	000010	000702	CHPB	#10,PSW	;IS THE PS 10?
014046	001401			BEQ	+.4	
014050	000000			HLT		;THE PS IS NOT EQUAL TO 10
014052	022700	177525		CMP	#177525,%0	;IS THE RESULT 177525?
014056	001401			BEQ	+.4	
014060	000000			HLT		;RO IS NOT EQUAL TO 177525
014062	022701	052525		CMP	#52525,%0!1	;IS THE RESULT 52525?
014066	001401			BEQ	+.4	
014070	000000			HLT		;RO!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 172 125252 125252 SHIFTED BY 251 = 177525 52525 PS = 10  
:\*\*\*\*\*

014072	010701			SCOPE		
014074	012700	125252		MOV	#125252,%0	;LOAD RO WITH 125252
014100	012701	125252		MOV	#125252,%0!1	;LOAD RO!1 WITH 125252
014104	000241			CLC		
014106	073037	014754		ASHC	251,%0	;SHIFT RO,RO!1 BY 251
014112	013767	177776	000630	MOV	2#PS,PSW	;SAVE PS
014120	122767	000010	000622	CHPB	#10,PSW	;IS THE PS 10?
014126	001401			BEQ	+.4	
014130	000000			HLT		;THE PS IS NOT EQUAL TO 10
014132	022700	177525		CMP	#177525,%0	;IS THE RESULT 177525?
014136	001401			BEQ	+.4	
014140	000000			HLT		;RO IS NOT EQUAL TO 177525
014142	022701	052525		CMP	#52525,%0!1	;IS THE RESULT 52525?
014146	001401			BEQ	+.4	
014150	000000			HLT		;RO!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 173 125252 125252 SHIFTED BY X2 = 177525 52525 PS = 10  
:\*\*\*\*\*

014152	010701			SCOPE		
014154	012700	125252		MOV	0125252,X0	:LOAD R0 WITH 125252
014160	012701	125252		MOV	0125252,X0!1	:LOAD R0!1 WITH 125252
014164	000241			CLC		
014166	073002			ASHC	X2,X0	:SHIFT R0,R0!1 BY X2
014170	013767	177776	000552	MOV	00PS,PSH	:SAVE PS
014176	122767	000010	000544	CHPB	010,PSH	:IS THE PS 10?
014204	001401			BEG	.+4	
014206	000000			HLT		:THE PS IS NOT EQUAL TO 10
014210	022700	177525		CHP	0177525,X0	:IS THE RESULT 177525?
014214	001401			BEG	.+4	
014216	000000			HLT		:R0 IS NOT EQUAL TO 177525
014220	022701	052525		CHP	052525,X0!1	:IS THE RESULT 52525?
014224	001401			BEG	.+4	
014226	000000			HLT		:R0!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 174 125252 125252 SHIFTED BY (3)+ = 177525 52525 PS = 10  
:\*\*\*\*\*

014230	010701			SCOPE		
014232	012700	125252		MOV	0125252,X0	:LOAD R0 WITH 125252
014236	012701	125252		MOV	0125252,X0!1	:LOAD R0!1 WITH 125252
014242	000241			CLC		
014244	073023			ASHC	(3)+,X0	:SHIFT R0,R0!1 BY (3)+
014246	013767	177776	000474	MOV	00PS,PSH	:SAVE PS
014254	122767	000010	000466	CHPB	010,PSH	:IS THE PS 10?
014262	001401			BEG	.+4	
014264	000000			HLT		:THE PS IS NOT EQUAL TO 10
014266	022700	177525		CHP	0177525,X0	:IS THE RESULT 177525?
014272	001401			BEG	.+4	
014274	000000			HLT		:R0 IS NOT EQUAL TO 177525
014276	022701	052525		CHP	052525,X0!1	:IS THE RESULT 52525?
014302	001401			BEG	.+4	
014304	000000			HLT		:R0!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 175 125252 125252 SHIFTED BY -(3) = 177525 52525 PS = 10  
\*\*\*\*\*

014306	010701			SCOPE		
014310	012700	125252		MOV	0125252,XD	:LOAD RD WITH 125252
014314	012701	125252		MOV	0125252,XD!1	:LOAD RD!1 WITH 125252
014320	000241			CLC		
014322	073043			ASHC	-(3),XD	:SHIFT RD,RO!1 BY -(3)
014324	013767	177776	000416	MOV	00PS,PSM	:SAVE PS
014326	122767	000010	000410	CHPB	010,PSM	:IS THE PS 10?
014330	001401			BEG	.+4	
014334	000000			HLT		:THE PS IS NOT EQUAL TO 10
014338	022700	177525		CHP	0177525,XD	:IS THE RESULT 177525?
014342	001401			BEG	.+4	
014346	000000			HLT		:RD IS NOT EQUAL TO 177525
014350	022701	052525		CHP	052525,XD!1	:IS THE RESULT 52525?
014354	001401			BEG	.+4	
014358	000000			HLT		:RD!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 176 125252 125252 SHIFTED BY 2(4) = 177252 125252 PS = 11  
\*\*\*\*\*

014364	010701			SCOPE		
014366	012700	125252		MOV	0125252,XD	:LOAD RD WITH 125252
014370	012701	125252		MOV	0125252,XD!1	:LOAD RD!1 WITH 125252
014374	000241			CLC		
014400	073064	000002		ASHC	2(4),XD	:SHIFT RD,RO!1 BY 2(4)
014404	013767	177776	000336	MOV	00PS,PSM	:SAVE PS
014412	122767	000011	000330	CHPB	011,PSM	:IS THE PS 11?
014416	001401			BEG	.+4	
014420	000000			HLT		:THE PS IS NOT EQUAL TO 11
014424	022700	177252		CHP	0177252,XD	:IS THE RESULT 177252?
014430	001401			BEG	.+4	
014434	000000			HLT		:RD IS NOT EQUAL TO 177252
014438	022701	125252		CHP	0125252,XD!1	:IS THE RESULT 125252?
014440	001401			BEG	.+4	
014442	000000			HLT		:RD!1 IS NOT EQUAL TO 125252

\*\*\*\*\*  
:TEST 177 125252 125252 SHIFTED BY 2(4) = 177525 52525 PS = 10  
:\*\*\*\*\*

01444	010701			SCOPE		
01444	012700	125252		MOV	0125252,XD	;LOAD RD WITH 125252
01444	012701	125252		MOV	0125252,XD!1	;LOAD RD!1 WITH 125252
01444	000241			CLC		
01444	073074	000000		ASHC	2(4),XD	;SHIFT RD,RO!1 BY 2(4)
01444	013767	177776	000256	MOV	20PS,PSM	;SAVE PS
01444	122767	000010	000250	CHPB	010,PSM	;IS THE PS 10?
01444	001401			BEG	.+4	
01444	000000			HLT		;THE PS IS NOT EQUAL TO 10
01444	022700	177525		CHP	0177525,XD	;IS THE RESULT 177525?
01444	001401			BEG	.+4	
01444	000000			HLT		;RD IS NOT EQUAL TO 177525
01444	022701	052525		CHP	052525,XD!1	;IS THE RESULT 52525?
01444	001401			BEG	.+4	
01444	000000			HLT		;RD!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 200 125252 125252 SHIFTED BY 2(4)+ = 177525 52525 PS = 10  
:\*\*\*\*\*

01444	010701			SCOPE		
01444	012700	125252		MOV	0125252,XD	;LOAD RD WITH 125252
01444	012701	125252		MOV	0125252,XD!1	;LOAD RD!1 WITH 125252
01444	000241			CLC		
01444	073074			ASHC	2(4)+,XD	;SHIFT RD,RO!1 BY 2(4)+
01444	013767	177776	000200	MOV	20PS,PSM	;SAVE PS
01444	122767	000010	000172	CHPB	010,PSM	;IS THE PS 10?
01444	001401			BEG	.+4	
01444	000000			HLT		;THE PS IS NOT EQUAL TO 10
01444	022700	177525		CHP	0177525,XD	;IS THE RESULT 177525?
01444	001401			BEG	.+4	
01444	000000			HLT		;RD IS NOT EQUAL TO 177525
01444	022701	052525		CHP	052525,XD!1	;IS THE RESULT 52525?
01444	001401			BEG	.+4	
01444	000000			HLT		;RD!1 IS NOT EQUAL TO 52525

#####  
:TEST 201 125252 125252 SHIFTED BY 2-(4) = 177525 52525 PS = 10  
:#####

014609	010701			SCOPE		
014609	012700	125252		MOV	0125252,XD	:LOAD R0 WITH 125252
014610	012701	125252		MOV	0125252,XD!1	:LOAD R0!1 WITH 125252
014614	000241			CLC		
014616	073054			ASHC	2-(4),XD	:SHIFT R0,R0!1 BY 2-(4)
014620	013767	177776	000122	MOV	00PS,PSM	:SAVE PS
014626	122767	000010	000114	CHPB	010,PSM	:IS THE PS 10?
014634	001401			BEG	.+4	
014636	000000			HLT		:THE PS IS NOT EQUAL TO 10
014640	022700	177525		CHP	0177525,XD	:IS THE RESULT 177525?
014644	001401			BEG	.+4	
014646	000000			HLT		:R0 IS NOT EQUAL TO 177525
014650	022701	52525		CHP	052525,XD!1	:IS THE RESULT 52525?
014654	001401			BEG	.+4	
014656	000000			HLT		:R0!1 IS NOT EQUAL TO 52525

014660	005267	164114		INC	ICNT	
014664	016737	164110	177570	MOV	ICNT,00DISPLAY	
014672	022767	020000	164100	CHP	020000,ICNT	
014700	001402			BEG	.+6	
014702	000167	164074		JMP	BEG	
014706	005067	164066		CLR	ICNT	
014712	105737	177564		TSTB	00177564	
014716	100375			BPL	.-4	
014720	112737	000007	177566	MOV	07,00177566	
014726	013700	000042		MOV	0042,XD	:GET MONITOR RETURN ADDRESS
014732	001404			BEG	18	:SKIP IF NONE
014734	004710			JSR	7,(0)	:GO BACK TO THE MONITOR
014736	000240			NOP		
014740	000240			NOP		
014742	000240			NOP		
014744	000137	000200		JMP	00200	:RESTART THE PROGRAM

014750	000000			PSM:	0	
014752	000007			S0:	7	
014754	177771			S1:	-7	
014756	014754			S2:	S1	
014760	177772			S3:	-6	
	000001					.END

REG 001002  
 DISPLA= 177570  
 DUNNY = 000000  
 NLT = 000000

ICNT = 001000  
 M = 000006

N = 000202

PS = 177776

126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

PSM 014750

R = 00000

SCOPE = 010701

BRAND = 177570  
 014752  
 014754  
 014756  
 014760  
 = 177762

= 014762

2768	2789	2800	2821	2832	2853	2864	2885	2896	2917	2928	2949	2960	2981	2992	3013	3024	3045	3056	3077	3088	3109	3120	3141	3152	3173	3184	3205	3216	3237	3248	3269	3280	3301	3312	3333	3344	3365	3376	3397	3408	3429	3440	3461	3472	3493	3504	3525	3536	3557	3568	3589	3600	3621	3632	3653	3664	3685	3696	3717	3728	3749	3760	3781	3792	3813	3824	3845	3856	3877	3888	3909	3920	3941	3952	3973	3984	4005	4016	4037	4048	4069	4080	4101	4112	4133	4144	4165	4176	4197	4208	4229	4240	4261	4272	4293	4304	4325	4336	4357	4368	4389	4400	4421	4432	4453	4464	4485	4496	4517	4528	4549	4560	4581	4592	4613	4624	4645	4656	4677	4688	4709	4720	4741	4752	4773	4784	4805	4816	4837	4848	4869	4880	4901	4912	4933	4944	4965	4976	4997	5008	5029	5040	5061	5072	5093	5104	5125	5136	5157	5168	5189	5200	5221	5232	5253	5264	5285	5296	5317	5328	5349	5360	5381	5392	5413	5424	5445	5456	5477	5488	5509	5520	5541	5552	5573	5584	5605	5616	5637	5648	5669	5680	5701	5712	5733	5744	5765	5776	5797	5808	5829	5840	5861	5872	5893	5904	5925	5936	5957	5968	5989	6000	6021	6032	6053	6064	6085	6096	6117	6128	6149	6160	6181	6192	6213	6224	6245	6256	6277	6288	6309	6320	6341	6352	6373	6384	6405	6416	6437	6448	6469	6480	6501	6512	6533	6544	6565	6576	6597	6608	6629	6640	6661	6672	6693	6704	6725	6736	6757	6768	6789	6800	6821	6832	6853	6864	6885	6896	6917	6928	6949	6960	6981	6992	7013	7024	7045	7056	7077	7088	7109	7120	7141	7152	7173	7184	7205	7216	7237	7248	7269	7280	7301	7312	7333	7344	7365	7376	7397	7408	7429	7440	7461	7472	7493	7504	7525	7536	7557	7568	7589	7600	7621	7632	7653	7664	7685	7696	7717	7728	7749	7760	7781	7792	7813	7824	7845	7856	7877	7888	7909	7920	7941	7952	7973	7984	8005	8016	8037	8048	8069	8080	8101	8112	8133	8144	8165	8176	8197	8208	8229	8240	8261	8272	8293	8304	8325	8336	8357	8368	8389	8400	8421	8432	8453	8464	8485	8496	8517	8528	8549	8560	8581	8592	8613	8624	8645	8656	8677	8688	8709	8720	8741	8752	8773	8784	8805	8816	8837	8848	8869	8880	8901	8912	8933	8944	8965	8976	8997	9008	9029	9040	9061	9072	9093	9104	9125	9136	9157	9168	9189	9200	9221	9232	9253	9264	9285	9296	9317	9328	9349	9360	9381	9392	9413	9424	9445	9456	9477	9488	9509	9520	9541	9552	9573	9584	9605	9616	9637	9648	9669	9680	9701	9712	9733	9744	9765	9776	9797	9808	9829	9840	9861	9872	9893	9904	9925	9936	9957	9968	9989	10000
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

SASHC	1358	150	171	188	213	224	225	276	297	318	339	380	400	423
	444	455	486	507	543	549	570	591	612	633	654	675	696	717
	759	780	801	822	858	864	885	906	927	948	969	990	1011	1032
	1074	1095	1116	1137	1158	1179	1200	1221	1242	1263	1284	1305	1326	1347
	1389	1410	1431	1452	1473	1494	1515	1536	1557	1578	1599	1620	1641	1662
	1704	1725	1746	1767	1788	1809	1830	1851	1872	1893	1914	1935	1956	1977
	1998	2019	2040	2061	2082	2103	2124	2145	2166	2187	2208	2229	2250	2271
	2292	2313	2334	2355	2376	2397	2418	2439	2460	2481	2502	2523	2544	2565
SASHCS	1358	2591	2612	2633	2654	2675	2696	2717	2738	2759	2780	2801	2822	2843





	1744	1763	1780	1798	1816	1834	1852	1870	1891	1912	1933	1954	1975	1996	2017
.IF	2038	2059	2080	2101	2119	2137	2152	2173	2191	2209	2227	2248	2269	2290	2311
	2631	2652	2673	2694	2715	2736	2754	2778	2799	2812	2830	2848	2866	2884	2910
	166	187	208	229	250	271	292	313	334	355	376	397	418	439	460
	481	502	523	544	565	586	607	628	649	670	691	712	733	754	775
	796	817	838	859	880	901	922	943	964	985	1006	1027	1048	1069	1090
	1111	1132	1153	1174	1195	1216	1237	1258	1279	1300	1321	1342	1363	1384	1405
	1426	1447	1468	1489	1510	1531	1552	1573	1594	1615	1636	1657	1678	1699	1720
	1741	1762	1780	1798	1816	1834	1852	1870	1891	1912	1933	1954	1975	1996	2017
	2035	2056	2077	2098	2119	2137	2152	2173	2191	2209	2227	2248	2269	2290	2311
	2329	2350	2371	2392	2413	2434	2454	2476	2494	2512	2530	2548	2566	2584	2607
	2628	2649	2670	2691	2712	2733	2754	2775	2796	2812	2830	2848	2866	2884	2910
.IIF	150	151	152	171	172	173	192	193	194	213	214	215	234	235	236
	255	256	257	276	277	278	297	298	299	318	319	320	339	340	341
	360	361	362	381	382	383	402	403	404	423	424	425	444	445	446
	465	466	467	486	487	488	507	508	509	528	529	530	549	550	551
	570	571	572	591	592	593	612	613	614	633	634	635	654	655	656
	675	676	677	696	697	698	717	718	719	738	739	740	759	760	761
	780	781	782	801	802	803	822	823	824	843	844	845	864	865	866
	885	886	887	906	907	908	927	928	929	948	949	950	969	970	971
	990	991	992	1011	1012	1013	1032	1033	1034	1053	1054	1055	1074	1075	1076
	1095	1096	1097	1116	1117	1118	1137	1138	1139	1158	1159	1160	1179	1180	1181
	1200	1201	1202	1221	1222	1223	1242	1243	1244	1263	1264	1265	1284	1285	1286
	1305	1306	1307	1326	1327	1328	1347	1348	1349	1368	1369	1370	1389	1390	1391
	1410	1411	1412	1431	1432	1433	1452	1453	1454	1473	1474	1475	1494	1495	1496
	1515	1516	1517	1536	1537	1538	1557	1558	1559	1578	1579	1580	1599	1600	1601
	1620	1621	1622	1641	1642	1643	1662	1663	1664	1683	1684	1685	1704	1705	1706
	1725	1726	1727	1746	1747	1748	1767	1768	1769	1788	1789	1790	1819	1820	1821
	1854	1855	1856	1875	1876	1877	1896	1897	1898	1917	1918	1919	1938	1939	1940
	1957	1958	1959	1978	1979	1980	1999	2000	2001	2020	2021	2022	2041	2042	2043
	2062	2063	2064	2083	2084	2085	2104	2105	2106	2125	2126	2127	2146	2147	2148
	2193	2194	2195	2214	2215	2216	2235	2236	2237	2256	2257	2258	2277	2278	2279
	2294	2313	2314	2333	2334	2335	2354	2355	2356	2375	2376	2377	2396	2397	2398
	2399	2418	2419	2438	2439	2440	2459	2460	2461	2480	2481	2482	2501	2502	2503
	2532	2533	2534	2553	2554	2555	2574	2575	2576	2595	2596	2597	2616	2617	2618
	2532	2533	2534	2553	2554	2555	2574	2575	2576	2595	2596	2597	2616	2617	2618
.LIST	118	134	171	192	213	234	255	276	297	318	339	360	381	402	423
	444	465	486	507	528	549	570	591	612	633	654	675	696	717	738
	759	780	801	822	843	864	885	906	927	948	969	990	1011	1032	1053
	1074	1095	1116	1137	1158	1179	1200	1221	1242	1263	1284	1305	1326	1347	1368
	1389	1410	1431	1452	1473	1494	1515	1536	1557	1578	1599	1620	1641	1662	1683
	1704	1725	1746	1767	1788	1800	1818	1836	1854	1872	1893	1914	1935	1956	1977
	1998	2019	2040	2061	2082	2103	2121	2139	2157	2175	2193	2211	2229	2250	2271
	2292	2313	2334	2355	2376	2397	2418	2439	2460	2478	2496	2514	2532	2550	2568
	2586	2612	2633	2654	2675	2696	2717	2738	2759	2780	2801	2822	2843	2864	2885
.MACR	135	134	171	192	213	234	255	276	297	318	339	360	381	402	423
.NLIST	118	465	486	507	528	549	570	591	612	633	654	675	696	717	738
	444	780	801	822	843	864	885	906	927	948	969	990	1011	1032	1053
	759	1095	1116	1137	1158	1179	1200	1221	1242	1263	1284	1305	1326	1347	1368
	1074	1410	1431	1452	1473	1494	1515	1536	1557	1578	1599	1620	1641	1662	1683
	1389	1725	1746	1767	1788	1800	1818	1836	1854	1872	1893	1914	1935	1956	1977
	1704	2019	2040	2061	2082	2103	2121	2139	2157	2175	2193	2211	2229	2250	2271
	1998	2313	2334	2355	2376	2397	2418	2439	2460	2478	2496	2514	2532	2550	2568
	2292	2612	2633	2654	2675	2696	2717	2738	2759	2780	2801	2822	2843	2864	2885
	2586	2612	2633	2654	2675	2696	2717	2738	2759	2780	2801	2822	2843	2864	2885

.PAGE	150	192	234	276	318	360	402	444	486	528	570	612	654	696	738
	780	822	864	906	948	990	1032	1074	1116	1158	1200	1242	1284	1326	1368
	1410	1452	1494	1536	1578	1620	1662	1704	1746	1788	1830	1872	1914	1956	1998
	2019	2061	2103	2139	2175	2211	2250	2292	2334	2376	2418	2460	2496	2532	2568
	2612	2654	2696	2738	2780										
.REM	1														
.REPT	134	213	549	864	1179	1515									
.TITLE	118														

ERRORS DETECTED: 0  
DEFAULT GLOBALS GENERATED: 0

\*DCKBJA.DCKBJA.SEG/SOL/CRF/DS:ERFZ/EN:ABS=DSKM:DCKBJA.P11  
RUN-TIME: 14 23 3 SECONDS  
RUN-TIME RATIO: 125/42=2.9  
CORE USED: 7K (14 PAGES)

