DR. JOHN MANIOTES
COMPUTER TECHNOLOGY DEPT. *11, 0,007*
PURDUE UNIVERSITY
CALUMET CAMPUS
HAMMOND, IN 46323

BBC V1K PROGRAM DESCRIPTION

This demonstration program will match operator vs machine in picking teams from a master roster (in 1620 memory) of 90 all-star players. Operator picks visiting team, the machine then selects (randomly) the home team. A complete game is then "played." Running time is from 7 to 11 minutes per game. The batting average and handedness of the batter is taken into account in playing the game. All pitchers are considered equally effective.

Two separate random number generators built into the program effectively prevent the same game - or even close variations - from recurring. These generators are altered each time the program is loaded by the operator typing the date and time of day into memory, the program selecting certain digits from this type in.

Because of the high averages of the all-stars on the roster (each player is represented by his best year average-wise), most games are high scoring. However, shoutouts have occurred. In one game Bob Feller pitched a 3 hitter, winning 5-0. He then lost the next game 14-11.

No flow chart or listing is available for this program. An 80-80 listing of the program deck gives a map of memory from 00160 to 19999.

The game has been tested over about 50 games so far, about 10 games since the last patches were made. No apparent errors exist. This version V1K adds base stealing, hit by pitcher, and a more realistic base running situation to the first early tape BBC version.

Input/Output/Operating

To run BBC V1K, push reset, put program deck in read hopper - push load. During loading a message will be typed out indicating the version of BBC being used. SET THIS ON TYPEWRITER TO 40 & 70,

After completion of loading the typewriter will carriage return several times and type out "TODAY'S DATE IS" and wait for the operator to type in the date or any other garbage he may want to type in up to 30 characters. USE SHIFT KEY For numeric mtk. Release - start - the message "THE TIME IS" appears. Same procedure 1/11/62 then the typewriter will prepare headings for the visitors roster. Tab stops AUG. 11, 1962 of approximately 40 and 70 are convenient here. (Margin at 20).

When the typewriter stops, the operator types in the last name of his lead-off batter-release start. If he is one of the 90 - his record will appear. IF MISSPELLED, "COMPUTER prints" Otherwise the operator will be asked to make another choice. After nine new-value prompts, RETRY players have been entered, the 1620 program completes the job, selecting the home team and playing the game.

ALSO 1 YOU CAN STOP IN THE MIDDLE
OF THE GAME + GET
"TODAYS DATE" BY
INSTANT STOP, RESET, INSERT, RESET,
+ START

At the conclusion of the game, after the game totals are typed, sense switch 3 determines whether the same two teams will play another game (off) or if the operator will enter a new visiting team lineup (on).

Sense Switch 1 on will inhibit some type out of where runners are on the bases.

Sense Switch 2 on will force a hit by the current batter.

Sense Switch 4 on will force a non-hit by the current batter unless switch 2 is on.

All output is typewritten. There are no stops in the program.

Roster of Players

The roster of 90 players begins in location 13500 and extends to 17999. To read and print this roster, load the program, put the following routine in Insert and Start: _on console_

```
34  00000  00102
39  13501  00100
11  00018  00050
49  00000
```

TO GET THERE 49 02326 RS
+ IT TYPES "TODAYS DATE IS"

The program begins in 02326 if you wish to enter new teams; 04490 to play a game with the current teams. To GET THERE 49 04490 RS + PROGRAM BEGINS WITH 1ST man BATTING + CONTINUES

To pre-select both teams, stop the machine after the visiting team has been selected. Insert into locations 01937 - 01981 a series of 9 flagged 5 digit numbers, each number being the location of the player's record in memory that you wish to play on the home team. To determine this location - type the roster (as above). Player #1 is location 13500, #2 is 13550, and so on to 18950 for player #90. When the home team roster is entered in this manner, branch to 04490.

J. W. Burgeson
P. R. Burgeson

JWB:PRB:css

BBC   VERSION 1K   8/14/61

TODAYS DATE IS 9/11/61

THE TIME IS 1..00 OR THEREABOUTS

ENTER YOUR LINEUP BELOW

VISITORS

NAME		TEAM		AVG	BATS
RUTH	LF	1923	YANKS	.393	L
CROSSETI					

NON-VALID PLAYER. RETRY.

CROSETTI	SS	1936	YANKS	.288	R
HEGAN	C	1947	CLEVE	.249	R
TROSKY	1B	1936	CLEVE	.343	L
GORDON	2B	1942	YANKS	.322	R
WAGNER	SS	1900	PITTSBU	.381	R
WILLIAMS	LF	1941	RED SOX	.406	L
SPEAKER	CF	1925	CLEVE	.389	L
GROVE	P	1931	ATHLETI	.250	L

HOME TEAM

NAME		TEAM		AVG	BATS
BROUTHERS	1B	1887	DETROIT	.419	L
HORNSBY	2B	1924	CARDS	.424	R
KAMM	3B	1928	W SOX	.308	R
TRAVIS	SS	1941	WASHING	.359	L
MEDWICK	LF	1937	CARDS	.374	R
AVERILL	CF	1936	CLEVE	.378	L
HAMILTON	RF	1894	PHILS	.398	R
HARTNETT	C	1937	CUBS	.354	R
RADBOURNE	P	1884	PROVIDE	.250	R

RUTH UP   STRUCK OUT SWINGING
CROSETTI UP   SINGLE TO RIGHT

HEGAN UP STRUCK OUT CALLED
TROSKY UP RUNNER OUT STEALING SECOND

0 RUNS 1 HITS 0 ERRORS

BROUTHERS UP STRUCK OUT SWINGING
HORNSBY UP GROUNDER TO FIRST
KAMM UP GROUNDER TO THIRD

0 RUNS 0 HITS 0 ERRORS

END OF 1   SCORE 0 0

TROSKY UP STRUCK OUT SWINGING
GORDON UP LINE DRIVE TO SHORT
WAGNER UP BASE   ON BALLS
WILLIAMS UP TEXAS LEAGER SINGLE TO CENTER RUNNERS ON 1ST AND 3RD
SPEAKER UP STRUCK OUT SWINGING

0 RUNS 1 HITS 0 ERRORS

TRAVIS UP DOUBLE TO RIGHT
MEDWICK UP STRUCK OUT SWINGING
AVERILL UP LONG FLY TO L CENTR RUNNER ON 3RD
HAMILTON UP GROUNDER TO PITCHER

0 RUNS 1 HITS 0 ERRORS

END OF 2   SCORE 0 0

GROVE UP STRUCK OUT SWINGING
RUTH UP GROUNDER TO SECOND
CROSETTI UP LINE DRIVE TO SHORT

0 RUNS 0 HITS 0 ERRORS

HARTNETT UP FLY BALL TO R CENTR
RADBOURNE UP FLY BALL TO R CENTR
BROUTHERS UP LINE DRIVE TO THIRD

0 RUNS 0 HITS 0 ERRORS

END OF INNING 3   SCORE 0 0

HEGAN UP GROUNDER TO SHORT
TROSKY UP LONG FLY TO L CENTR
GORDON UP GROUNDER TO SHORT

0 RUNS 0 HITS 0 ERRORS

HORNSBY UP GROUNDER TO SHORT
KAMM UP STRUCK OUT SWINGING
TRAVIS UP LONG FLY TO CENTER

0 RUNS 0 HITS 0 ERRORS

END OF INNING 4   SCORE 0 0

WAGNER UP LINE DRIVE TO SHORT
WILLIAMS UP SINGLE TO RIGHT
SPEAKER UP LINE DRIVE TO FIRST DOUBLE PLAY

0 RUNS 1 HITS 0 ERRORS

MEDWICK UP SINGLE TO LEFT
AVERILL UP FLY BALL TO R CENTR
HAMILTON UP INF. HIT TO SHORT
HARTNETT UP LONG FLY TO CENTER RUNNERS ON 1ST AND 3RD
RADBOURNE UP LONG FLY TO R CENTR

0 RUNS 2 HITS 0 ERRORS

END OF INNING 5   SCORE 0 0

GROVE UP DOUBLE TO R CENTR
RUTH UP SINGLE OVER FIRST RUNNERS ON 1ST AND 3RD
CROSETTI UP GROUNDER TO SHORT BATTER SAFE AT FIRST RUNNER OUT AT HOME RUNNER
S ON 1ST AND 2ND
HEGAN UP GROUNDER TO THIRD DOUBLE PLAY

0 RUNS 2 HITS 0 ERRORS

BROUTHERS UP LONG FLY TO LEFT
HORNSBY UP GROUNDER TO PITCHER
KAMM UP LONG FLY TO R CENTR

0 RUNS 0 HITS 0 ERRORS

END OF 6   SCORE 0 0

TROSKY UP ERROR AT SECOND
GORDON UP GROUNDER TO THIRD RUNNER ON 2ND
WAGNER UP FOUL OUT TO RIGHT
WILLIAMS UP POP FLY TO FIRST

0 RUNS 0 HITS 1 ERRORS

TRAVIS UP STRUCK OUT SWINGING
MEDWICK UP STRUCK OUT SWINGING
AVERILL UP SINGLE TO L CENTR
HAMILTON UP RUNNER STEALS SECOND
 FOUL OUT TO SHORT

0 RUNS 1 HITS 0 ERRORS

END OF 7   SCORE 0 0

SPEAKER UP STRUCK OUT SWINGING
GROVE UP STRUCK OUT SWINGING
RUTH UP SINGLE OVER THIRD
CROSETTI UP SINGLE TO R CENTR RUNNERS ON 1ST AND 2ND
HEGAN UP GROUNDER TO SHORT

0 RUNS 2 HITS 0 ERRORS

HARTNETT UP STRUCK OUT CALLED
RADBOURNE UP STRUCK OUT SWINGING
BROUTHERS UP SINGLE OVER 2ND

HORNSBY UP   SHORT FLY TO RIGHT   6

0 RUNS 1 HITS 0 ERRORS

END OF INNING 8   SCORE 0 0

TROSKY UP   HOMER TO RIGHT
GORDON UP   GROUNDER TO PITCHER
WAGNER UP   DOUBLE TO CENTER
WILLIAMS UP   DOUBLE TO R CENTR RUNNER SCORES
SPEAKER UP   SHORT FLY TO LEFT
GROVE UP   GROUNDER TO THIRD

2 RUNS 3 HITS 0 ERRORS

KAMM UP   LONG FLY TO R CENTR
TRAVIS UP   INF. HIT TO THIRD
MEDWICK UP RUNNER STEALS SECOND
 LINE DRIVE TO PITCHER DOUBLE PLAY

0 RUNS 1 HITS 0 ERRORS

END OF 9   SCORE 2 0

GAME• COMPLETED. TOTALS

VISITORS   02   10   00
HOMETEAM   00   06   01

RUTH UP   BASE   ON BALLS
CROSETTI UP RUNNER STEALS SECOND
 LONG FLY TO CENTER RUNNER ON 3RD
HEGAN UP   STRUCK OUT SWINGING
TROSKY UP   STRUCK OUT CALLED

0 RUNS 0 HITS 0 ERRORS

AVERILL UP   TEXAS LEAGER DOUBLE TO RIGHT
HAMILTON UP   SINGLE TO LEFT RUNNER SCORES
HARTNETT UP   SHORT FLY TO RIGHT •
RADBOURNE UP LINE DRIVE TO SHORT DOUBLE PLAY

1 RUNS 2 HITS 0 ERRORS

END OF INNING 1   SCORE 0 1

GORDON UP   SINGLE TO LEFT
WAGNER UP   DOUBLE TO LEFT
WILLIAMS UP   SHORT FLY TO THIRD
SPEAKER UP   STRUCK OUT SWINGING
GROVE UP   STRUCK OUT SWINGING

0 RUNS 2 HITS 0 ERRORS

BROUTHERS UP GROUNDER TO FIRST
HORNSBY UP   SINGLE OVER THIRD
KAMM UP   SINGLE OVER FIRST RUNNERS ON 1ST AND 3RD
TRAVIS UP   LONG FLY TO L CENTR RUNNER SCORES RUNNER ON 1ST
MEDWICK UP   TRIPLE TO RIGHT RUNNER SCORES
AVERILL UP   DOUBLE TO R CENTR RUNNER SCORES
HAMILTON UP   GROUNDER TO SECOND

3 RUNS 4 HITS 0 ERRORS

END OF INNING 2   SCORE 0 4

RUTH UP   SINGLE TO L CENTR
CROSETTI UP   STRUCK OUT SWINGING
HEGAN UP   FOUL OUT TO RIGHT
TROSKY UP   TEXAS LEAGER DOUBLE TO R CENTR RUNNER SCORES
GORDON UP   SINGLE TO R CENTR RUNNERS ON 1ST AND 3RD
WAGNER UP   BASE   ON BALLS BASES LOADED

WILLIAMS UP STRUCK OUT SWINGING

1 RUNS 3 HITS 0 ERRORS

HARTNETT UP GROUNDER TO PITCHER
RADBOURNE UP INF. HIT TO FIRST
BROUTHERS UP FOUL OUT TO RIGHT
HORNSBY UP RUNNER STEALS SECOND
 LONG FLY TO LEFT

0 RUNS 1 HITS 0 ERRORS

END OF INNING 3   SCORE 1 4

SPEAKER UP GROUNDER TO THIRD
GROVE UP GROUNDER TO FIRST
RUTH UP SINGLE TO L CENTR
CROSETTI UP GROUNDER TO PITCHER

0 RUNS 1 HITS 0 ERRORS

KAMM UP GROUNDER TO THIRD
TRAVIS UP STRUCK OUT SWINGING
MEDWICK UP DOUBLE TO R CENTR
AVERILL UP SINGLE OVER 2ND RUNNERS ON 1ST AND 3RD
HAMILTON UP SINGLE TO CENTER RUNNER SCORES RUNNERS ON 1ST AND 3RD
HARTNETT UP TRIPLE TO L CENTR TWO RUNS SCORE RUNNER ON 3RD
RADBOURNE UP INF. FLY TO CATCHER

3 RUNS 4 HITS 0 ERRORS

END OF INNING 4   SCORE 1 7

HEGAN UP STRUCK OUT SWINGING
TROSKY UP GROUNDER TO SHORT
GORDON UP ERROR ON SHORTSTOP
WAGNER UP STRUCK OUT SWINGING

0 RUNS 0 HITS 1 ERRORS

BROUTHERS UP TEXAS LEAGER DOUBLE TO RIGHT
HORNSBY UP STRUCK OUT SWINGING
KAMM UP FLY BALL TO LEFT
TRAVIS UP SINGLE TO CENTER RUNNERS ON 1ST AND 3RD
MEDWICK UP SINGLE TO R CENTR RUNNER SCORES RUNNERS ON 1ST AND 2ND
AVERILL UP GROUNDER TO SHORT

1 RUNS 3 HITS 0 ERRORS

END OF INNING 5   SCORE 1 8

WILLIAMS UP FOUL OUT TO THIRD
SPEAKER UP GROUNDER TO SHORT
GROVE UP GROUNDER TO THIRD

0 RUNS 0 HITS 0 ERRORS

HAMILTON UP LONG FLY TO RIGHT
HARTNETT UP SINGLE OVER THIRD
RADBOURNE UP RUNNER STEALS SECOND

STRUCK OUT SWINGING
BROUTHERS UP   STRUCK OUT SWINGING

0 RUNS   1 HITS   0 ERRORS

END OF 6   SCORE 1 8

RUTH UP   INF. HIT TO THIRD
CROSETTI UP   GROUNDER TO SHORT DOUBLE PLAY
HEGAN UP   GROUNDER TO SHORT

0 RUNS   1 HITS   0 ERRORS

HORNSBY UP   GROUNDER TO FIRST
KAMM UP   ERROR ON SHORTSTOP
TRAVIS UP   GROUNDER TO PITCHER DOUBLE PLAY

0 RUNS   0 HITS   1 ERRORS

END OF INNING 7   SCORE 1 8

TROSKY UP   GROUNDER TO PITCHER
GORDON UP   SINGLE TO L CENTR
WAGNER UP   STRUCK OUT SWINGING
WILLIAMS UP   BLAST OVER L F WALL TWO RUNS SCORE
SPEAKER UP   GROUNDER TO THIRD

2 RUNS   2 HITS   0 ERRORS

MEDWICK UP   STRUCK OUT SWINGING
AVERILL UP   DOUBLE TO R CENTR
HAMILTON UP   LINE DRIVE TO FIRST DOUBLE PLAY

0 RUNS   1 HITS   0 ERRORS

END OF 8   SCORE 3 8

GROVE UP   FOUL OUT TO RIGHT
RUTH UP   HOMER TO LEFT
CROSETTI UP   SINGLE OVER 2ND
HEGAN UP   SINGLE OVER THIRD RUNNERS ON 1ST AND 3RD
TROSKY UP   HOMER TO RIGHT 3 RUNS COME IN
GORDON UP   SINGLE TO L CENTR
WAGNER UP   SINGLE OVER FIRST RUNNERS ON 1ST AND 3RD
WILLIAMS UP   SINGLE OVER 2ND RUNNER SCORES RUNNERS ON 1ST AND 3RD
SPEAKER UP   STRUCK OUT SWINGING
GROVE UP   LINE DRIVE TO THIRD

5 RUNS   7 HITS   0 ERRORS

HARTNETT UP   GROUNDER TO THIRD
RADBOURNE UP   GROUNDER TO THIRD
BROUTHERS UP   POP FLY TO SHORT

0 RUNS   0 HITS   0 ERRORS

END OF INNING 9   SCORE 8 8

RUTH UP   GROUNDER TO SHORT
CROSETTI UP   BASE   TAKEN - HIT BY PITCHER
HEGAN UP   SINGLE TO L CENTR RUNNERS ON 1ST AND 3RD
TROSKY UP   HOMER   TO CENTER 3 RUNS COME IN
GORDON UP   GROUNDER TO FIRST
WAGNER UP   LONG FLY TO RIGHT

3 RUNS   2 HITS   0 ERRORS

HORNSBY UP   DOUBLE OVER THIRD
KAMM UP   GROUNDER TO PITCHER
TRAVIS UP   POP FLY TO FIRST
MEDWICK UP   STRUCK OUT SWINGING

0 RUNS   1 HITS   0 ERRORS

END OF INNING 10   SCORE 11 8

GAME COMPLETED. TOTALS

VISITORS   11 18 01
HOMETEAM   08 17 01