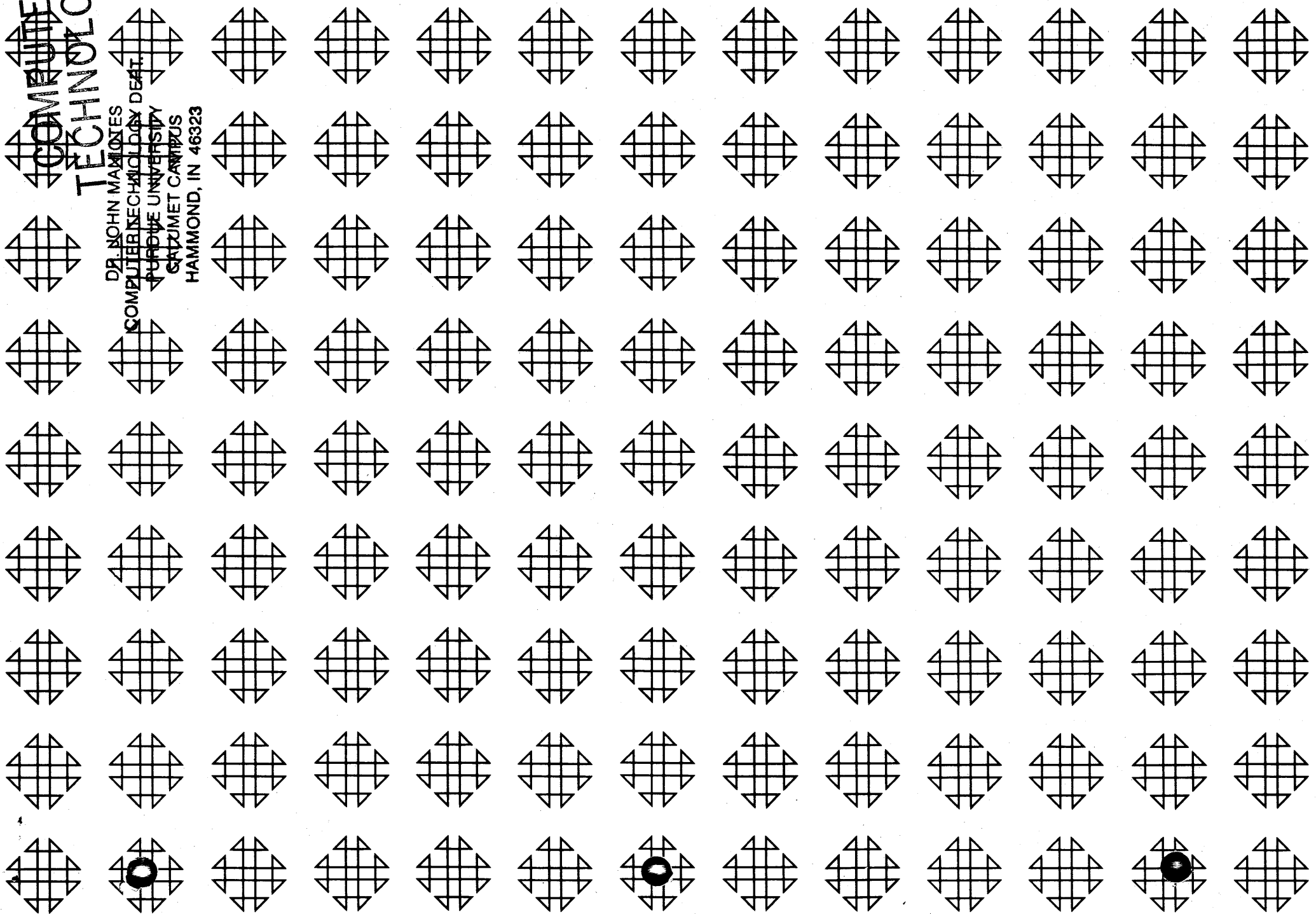COMPUTER
TECHNOLOGY

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4

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warranty, express or implied, is made by the contributor or
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is assumed by the contributor or 1620 USERS Group, in con-
nection therewith.

1620 USERS GROUP PROGRAM REVIEW AND EVALUATION

Program No._____   Date_____

Program Name:_____

1. Does the abstract adequately describe what the program is and
   what it does?   Yes___No____
   Comment_____

2. Does the program do what the abstract says?   Yes___No____
   Comment_____

3. Is the Description clear, understandable, and adequate?   Yes___No____
   Comment_____

4. Are the Operating Instructions understandable and in sufficient
   detail?   Yes___No____
   Comment_____
   Are the Sense Switch options adequately described (if applicable)? Yes___No____
   Are the mnemonic labels identified or sufficiently
   understandable?   Yes___No____
   Comment_____

5. Does the source program compile satisfactorily (if applicable)? Yes___No____
   Comment_____

6. Does the object program run satisfactorily?   Yes___No____
   Comment_____

7. Number of test cases run_____
   Are any restrictions as to data, size, range, etc. covered
   adequately in description?   Yes___No____
   Comment_____

8. Does the Program meet the minimal standards of the 1620 Users
   Group?   Yes___No____
   Comment_____

9. Please list any suggestions to improve the usefulness of the
   program. These will be passed on to the author for his consideration.
   Comment_____

Please return to: Your Name _____

    Mr. Robert J. Robinson (PREP)   Company   _____
    Marquette University
    Computing Center   Address   _____
    1515 W. Wisconsin Avenue
    Milwaukee 3, Wisconsin   User Group
                                     Code   _____

THIS REVIEW FORM IS PART OF THE 1620 USER GROUP ORGANIZATION'S PROGRAM
REVIEW AND EVALUATION PROCEDURE. NONMEMBERS ARE CORDIALLY INVITED
TO PARTICIPATE IN THIS EVALUATION.

B B C BASEBALL SIMULATION

AND DEMONSTRATOR

Paul R. Burgeson
4257 Oak Knoll Avenue
Youngstown 12, Ohio

January 29, 1964

PROGRAM ABSTRACT

Title: BBC Baseball Simulation and Demonstrator

Author: Paul R. Burgeson
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Youngstown 12, Ohio

Date: January 29, 1964

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Description /Purpose: This program demonstrates the simulation ability of the 1620 by - quote - playing - unquote - the game of baseball between two all star teams. The machine operator picks the visiting team from a master roster of 90 possible players, the 1620 selects (randomly) the home team from the 81 players left. A complete ball game is then simulated. Two separate random number generators which are initialized at the program start assure a different game each time.

Method: Simulation of the rules of baseball.

Restrictions: The program recognizes only 90 particular player names and records, contained in a master table with the program. Other player names are not acceptable.

Equipment: Basic 20K 1620 with 1622 card reader. No other features are used, although their presence does not inhibit program operation.

Storage: All of 20K memory is used.

Language: This program was coded in machine language. No programming language was employed.

Table of Contents

Deck Labeling Key

Deck 1   BBC-D object program in SQUEEZ (file 1.3.005) format. Listing of this deck appears on pages 25, 26, 27, 28 and 29 of this report. Card order of the first 13 cards must be preserved, likewise the last 6 cards, card order in between these sections is not important.

Deck 2   BBC-S object program in SQUEEZ (file 1.3.005) format. Listing of this deck appears on pages 30, 31, 32, 33 and 34 of this report. Card order of the first 13 cards must be preserved, likewise the last 6 cards, card order in between these sections is not important.

Program Writeup

BBC Baseball Simulation and Demonstrator

January 29, 1964

Paul R. Burgeson
4257 Oak Knoll Avenue
Youngstown 12, Ohio   ST - 2 - 6044

Description of BBC-D   (Deck 1)

This demonstration program will match operator against
machine in picking teams from a master roster in 1620 main
memory of 90 all star players. The operator is given first
choice to pick the visiting team, the 1620 then selects
randomly among the remaining 81 players for the home team
lineup. A complete game, including hits, runs, errors,
outs, fielders choices, double and triple plays, base
stealing, hit by pitchers, sacrifice flies, and other
baseball elements is then "played". All output is via the
1620 typewriter, a game taking usually from 7 to 11 minutes
to complete.

The model used considers all pitchers equally effective.
However, player batting averages and handedness in batting
are taken into consideration. All rules of baseball are
followed except one, as follows: a home team, scoring and
going ahead of a visiting team in the 9th or succeeding
innings, will continue to play out the inning, even though
the game has been won.

Two separate random number generators, initialized by the
operator at program start, effectively prevent the same
game, or even close variations, from recurring. The program
selects certain digits from the initial type in of date and
time of day by the operator to accomplish the initialization.
Further initialization is given these generators when the
visiting team roster is entered.

Each player in the master roster is represented by his best
year in terms of batting average. Consequently, most games
are fairly high scoring. Shutouts have occurred, however. In
one game Bob Feller pitched a 3 hitter, winning 5-0. He then
lost the next game 14-11.

No flow diagram is available for this program. It was coded
in machine language early in 1961. This version has been
extensively tested over 200 games or so.

Player Roster

The roster of 90 players is contained in memory as a series of 50
digit records beginning in location 13500 and extending to 17999.
A record layout looks as follows:

 XXXXXXXXXXXX0*******YYYY**TTTTTTTTTT0*00**AAA*HH●**
        for example - Trosky's record in 13500-13549
    6359566252680*******1936**43534565450*00**343*53**

where the XXXXXXX . . . are the player's name in 1620 alpha nota-
tion, up to 9 characters in length.

the * denotes a record mark.

YYYY is the players best year in the major leagues.

TTTTTT . . . is the team played with during the best year, up to
7 characters in length, also in 1620 double digit code.

AAA is the players batting average.

HH is the player handedness, in 1620 code. R for right, L for left,
and B for both right and left are valid codes.

A 0* (zero-record mark) must follow each player name, with record
marks filling out the space up to the year designator. A 0* must also
follow the team name; either zeros or record marks may be used to
fill out this part of the record.

The following procedure may be used to type out the roster:
(names only)

Reset
Insert
34000000010239135010010011000180005049 00000
Release
Start

The program comes to you self contained, with 90 players set up in
the master roster all ready to go. (See page 7 for a listing of this
roster). The preceding information will be of interest to you only if
you desire to insert players of your own choice into the program.

The first 10 players in the roster are assumed by the program to be
first basemen, the next 10, second basemen, next third basemen, then
shortstops, lift fielders, center fielders, right fielders, catchers,
pitchers.

Input/Output Description

All input is made to this program via the 1620 typewriter. Likewise, all output is typed on the 1620 typewriter.

There are three operator inputs to the program, as follows:

      1. After loading, the program types the message "TODAYS DATE IS" and halts, waiting for operator input. At this point, type in the date in any format (or anything else you care to type except record marks, up to 30 characters in length), hit release-start. Your type in will be used to randomize the program.

      2. Next the program will type the message "THE TIME IS" and halt again. Follow the same procedure as in 1. above.

      3. After typing headings, the 1620 will return the typewriter carriage and halt waiting for you to choose your leadoff batter. Type his name, up to 9 characters in length, release-start. If his name appears in the master roster, his record will follow, typed by the program, otherwise the message "NON-VALID PLAYER. RETRY." will appear and you must try again. Once the leadoff batter is chosen, choose the other eight players of the visiting team in lineup order in the same fashion. After the last visiting team player is chosen, the 1620 takes over, selects the home team and plays the game.

Restrictions

Operator type in of the date and time of day in 1. and 2. above may be in any format, any characters, except record marks, up to 30 characters in length. Violation of either of these restrictions will partially destroy the program.

Operator type in of player name is similarly limited. No record marks, not more than 9 characters.

Error Stops

If a non-feasible player is selected by the operator, the program asks again for that player name. Only player names appearing in the master roster may be used. There are no other stops within the program. At the game's conclusion sense switch 3 determines if a new set of teams is to be entered (on) or if a second game between the same teams is to be played (off).

DETAILED OPERATING INSTRUCTIONS

The program as provided is self-loading and begins execution immediately after loading is completed.

1. Set two tab stops at positions 15 and 35 away from the left-hand margin of the typewriter.

2. Depress "instant stop."

3. Depress "reset."

4. Place the program deck in the 1622 reader.

5. Set sense switches 1, 2 and 4 off, switch 3 on.

6. Set overflow switch to program, other switches to stop.

7. Depress "load" on the 1622 card reader.

8. The program deck is followed by two extra cards so the program will now load and begin execution without further operator intervention.

9. When the message "TODAY'S DATE IS" appears, type the date in any format, up to 30 characters, no record mark. Then depress "release" and "start."

10. When the message "THE TIME IS" appears, type the time in any format, up to 30 characters, no record mark. Then again depress "release" and "start."

11. The 1620 will type page headings, then halt for you to type in a player name. Type a name acceptable to the master roster, up to 9 characters, "release" and "start."

12. Continue as in the second part of Step 11, until 9 player names have been accepted by the 1620. The program then runs to completion without operator intervention.

Equipment Required: Basic 1620/1622. No extra features.

Language: This program was written in machine language.

The Master Roster

Following are the players included in the master roster:

First Base

Trosky	Benson	Gehrig	Terry	Sisler
Foxx	Mize	Anson	York	Brouthers

Second Base

Lajoie	C. Burg	Gordon	Frisch	Gehringer
E. Collins	Mack Lazzeri		Hornsby	Robinson

Third Base

Keltner	J. Burg	Hack	Traynor	McGraw
J. Collins	Baker	Groh	Kell	Kamm

Shortstop

Boudreau	Crosetti	Tumblin	Wagner	Vaughan
Sewell	Cronin	Jennings	Appling	Travis

Left Field

P. Waner	Medwick	Simmons	Duffy	Wheat
Radcliff	Ruth	Heilmann	Musial	Williams

Center Field

Dimaggio	Keller	Speaker	Cobb	Henrich
Reiser	Averill	Jackson	Rice	O Rourke

Right Field

L Waner	Herman	Hamilton	O Doul	Cuyler
Burkett	Crawford	Greenberg	Delahanty	Ott

Catcher

Hayes	Danning	Hartnett	M. Burg	Hegan
Cochrane	Dickey	Berra	Lombardi	Kelly

Pitcher

Radbourne	Feller	D. Dean	Newhouser	Hubbell
Grove	Spahn	Young	Johnson	Ruffing

COMPUTER TECHNOLOGY

Sense Switch Usage

1 normally off.   On to by-pass typing of base runner positions after a play.

2 normally off.   On to force a hit by the current batter.

3 normally on.   Off to continue after a game with the same line-ups for another game.

4 normally off.   On to prevent a hit by the current batter.   Switch 2 takes precedence over Switch 4.

Miscellaneous

The program start is location 02326.

To play a game with the current teams, program start is location 04490.

To pre-select both teams, stop the machine after the visiting team has been chosen.   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 on the home team.   Player 1 is 13500, player 2 is 13550 and so on to player 90 which is 18950. After the home team is selected in this way, branch to 04490.

Description of BBC-S (Deck 2)

BBC-S was prepared from BBC-D by elimination of all output typing commands except those controlled by sense switch 1, extra inning markers, and end of game totals.   In this way the program becomes a rather swift simulator program.   A typical game takes from 11 to 15 seconds, including end of game totals.

Operating instructions are the same as BBC-D.   Sense switch 1 must be on, 3 must be off to cycle a number of games without operator intervention.

TODAYS DATE IS (JAN 8 1963 A. D.RS)

THE TIME IS (7.31 P MRS)

Note: Operator input is circled. All other typing was produced by the program.

ENTER YOUR LINEUP BELOW

VISITORS

NAME		TEAM	AVG	BATS
FOXXRS	1B	1932 ATHLETI	.364	R
GORDONRS	2B	1942 YANKS	.322	R
MARISRS				

NON-VALID PLAYER. RETRY.

NAME		TEAM	AVG	BATS
WAGNERRS	SS	1900 PITTSBU	.381	R
DIMAGGIORS	CF	1941 YANKS	.357	R
WILLIAMSRS	LF	1941 RED SOX	.406	L
KELTNERRS	3B	1939 CLEVE	.325	R
COBBRS	CF	1911 DETROIT	.420	L
HEGANRS	C	1947 CLEVE	.249	R
RADBOURNERS	P	1894 PROVIDE	.250	R

HOME TEAM

NAME		TEAM	AVG	BATS
GEHRIG	1B	1930 YANKS	.379	L
E COLLINS	2B	1920 W SOX	.369	L
BAKER	3B	1912 ATHLETI	.347	L
TUMBLIN	SS	1934 CHICAGO	.299	R
HEILMANN	LF	1923 DETROIT	.403	R
KEELER	CF	1897 BALTIMO	.432	L
O DOUL	RF	1929 PHILS	.398	L
DICKEY	C	1936 YANKS	.362	L
YOUNG	P	1892 CLEVE	.250	R

FOXX UP   GROUNDER TO SECOND
GORDON UP   GROUNDER TO THIRD
WAGNER UP   GROUNDER TO SHORT

0 RUNS   0 HITS   0 ERRORS

GEHRIG UP   ERROR AT FIRST
E COLLINS UP   SMASH OVER L F WALL TWO RUNS SCORE
BAKER UP   GROUNDER TO THIRD
TUMBLIN UP   GROUNDER TO SHORT
HEILMANN UP   SINGLE TO L CENTR
KEELER UP   LONG FLY TO R CENTR

2 RUNS   2 HITS   1 ERRORS

END OF 1   SCORE 0 2

DIMAGGIO UP   SINGLE TO LEFT
WILLIAMS UP   STRUCK OUT SWINGING
KELTNER UP   GROUNDER TO SHORT BATTER SAFE AT FIRST RUNNER OUT AT SECOND
COBB UP   SINGLE TO L CENTR RUNNERS ON 1ST AND 2ND
HEGAN UP   FLY BALL TO CENTER

0 RUNS   2 HITS   0 ERRORS

O DOUL UP   LINE DRIVE TO SHORT
DICKEY UP   LINE DRIVE TO FIRST
YOUNG UP   GROUNDER TO THIRD

0 RUNS   0 HITS   0 ERRORS

END OF INNING 2   SCORE 0 2

RADBOURNE UP   TEXAS LEAGER DOUBLE TO R CENTR
FOXX UP   SINGLE TO LEFT RUNNERS ON 1ST AND 3RD
GORDON UP   SINGLE TO LEFT RUNNER SCORES RUNNERS ON 1ST AND 2ND
WAGNER UP   SINGLE TO RIGHT BASES LOADED
DIMAGGIO UP   FOUL OUT TO CATCHER
WILLIAMS UP   STRUCK OUT CALLED
KELTNER UP   STRUCK OUT CALLED

1 RUNS   4 HITS   0 ERRORS

GEHRIG UP   STRUCK OUT SWINGING
E COLLINS UP   GROUNDER TO SHORT
BAKER UP   BASE .AKEN - HIT BY PITCHER
TUMBLIN UP   ERROR AT THIRD RUNNERS ON 1ST AND 2ND
HEILMANN UP   STRUCK OUT SWINGING

0 RUNS   0 HITS   1 ERRORS

END OF 3   SCORE 1 2

COBB UP   SINGLE TO R CENTR
HEGAN UP   STRUCK OUT SWINGING
RADBOURNE UP RUNNER OUT STEALING SECOND
  SINGLE OVER THIRD
FOXX UP RUNNER STEALS SECOND
  SINGLE TO RIGHT RUNNERS ON 1ST AND 3RD
GORDON UP   GROUNDER TO SECOND

0 RUNS   3 HITS   0 ERRORS

KEELER UP   POP FLY TO PITCHER
O DOUL UP   TRIPLE TO CENTER RUNNER ON 3RD
DICKEY UP   LONG FLY TO L CENTR RUNNER SCORES BASES EMPTY
YOUNG UP   TEXAS LEAGER DOUBLE TO L CENTR
GEHRIG UP   INF. HIT TO SECOND
E COLLINS UP   TRIPLE TO L CENTR TWO RUNS SCORE RUNNER ON 3RD
BAKER UP   DOUBLE TO LEFT RUNNER SCORES
TUMBLIN UP   SINGLE OVER 2ND RUNNERS ON 1ST AND 3RD
HEILMANN UP   ERROR AT THIRD RUNNER SCORES RUNNERS ON 1ST AND 2ND
KEELER UP   SINGLE OVER FIRST RUNNER SCORES RUNNERS ON 1ST AND 3RD
O DOUL UP   GROUNDER TO THIRD

6 RUNS   7 HITS   1 ERRORS

END OF INNING 4   SCORE 1 8

WAGNER UP   TEXAS LEAGER DOUBLE TO RIGHT
DIMAGGIO UP   SINGLE OVER FIRST RUNNER SCORES
WILLIAMS UP   GROUNDER TO THIRD BATTER SAFE AT FIRST RUNNER OUT AT SECOND
KELTNER UP RUNNER STEALS SECOND
 STRUCK OUT SWINGING
COBB UP   STRUCK OUT SWINGING

1 RUNS   2 HITS   0 ERRORS

DICKEY UP   SINGLE TO LEFT
YOUNG UP   GROUNDER TO SHORT RUNNER ON 2ND
GEHRIG UP   SINGLE TO R CENTR RUNNERS ON 1ST AND 3RD
E COLLINS UP   GROUNDER TO FIRST DOUBLE PLAY

0 RUNS   2 HITS   0 ERRORS

END OF 5   SCORE 2 8

HEGAN UP   LONG FLY TO R CENTR
RADBOURNE UP   ERROR ON SHORTSTOP
FOXX UP RUNNER OUT STEALING SECOND
 GROUNDER TO PITCHER

0 RUNS   0 HITS   1 ERRORS

BAKER UP   FLY BALL TO R CENTR
TUMBLIN UP   LONG FLY TO R CENTR
HEILMANN UP   LINE DRIVE TO FIRST

0 RUNS   0 HITS   0 ERRORS

END OF INNING 6   SCORE 2 8

GORDON UP   SINGLE OVER 2ND
WAGNER UP   SINGLE TO LEFT RUNNERS ON 1ST AND 2ND
DIMAGGIO UP   LONG FLY TO L CENTR RUNNERS ON 1ST AND 3RD
WILLIAMS UP   STRUCK OUT SWINGING
KELTNER UP   GROUNDER TO SECOND

0 RUNS   2 HITS   0 ERRORS

KEELER UP   STRUCK OUT SWINGING
O DOUL UP   LONG FLY TO L CENTR
DICKEY UP   LINE DRIVE TO SHORT

0 RUNS   0 HITS   0 ERRORS

END OF 7   SCORE 2 8

COBB UP   SINGLE TO RIGHT
HEGAN UP   GROUNDER TO SHORT BATTER SAFE AT FIRST RUNNER OUT AT SECOND
RADBOURNE UP   LONG FLY TO R CENTR
FOXX UP   SINGLE OVER FIRST RUNNERS ON 1ST AND 3RD
GORDON UP   SINGLE OVER FIRST RUNNER SCORES RUNNERS ON 1ST AND 2ND
WAGNER UP   GROUNDER TO FIRST

1 RUNS   3 HITS   0 ERRORS

YOUNG UP   LINE DRIVE TO SHORT
GEHRIG UP   STRUCK OUT CALLED
E COLLINS UP   LONG FLY TO L CENTR

0 RUNS   0 HITS   0 ERRORS

END OF 8   SCORE 3 8

DIMAGGIO UP   POP FLY TO FIRST
WILLIAMS UP   SINGLE TO CENTER
KELTNER UP RUNNER STEALS SECOND
 STRUCK OUT SWINGING
COBB UP   LONG FLY TO L CENTR

0 RUNS   1 HITS   0 ERRORS

GAME COMPLETED. TOTALS

VISITORS   03 17 03
HOMETEAM   08 11 01

This concludes the sample problem
detail of deck 1, BBC-D.

TODAYS DATE IS (JAN 8 1963 STILL)

(R)THE TIME IS (LATER THAN IT WAS)

(E)ENTER YOUR LINEUP BELOWVISITORSNAME TEAM
AVG BATS

KELTNERRS	3B 1939 CLEVE	.325R
KELTNERRS	3B 1939 CLEVE	.325R
KELTNERRS	3B 1939 CLEVE	.325R
KELTNERRS	3B 1939 CLEVE	.325R
KELTNERRS	3B 1939 CLEVE	.325R
KELTNERRS	3B 1939 CLEVE	.325R
KELTNERRS	3B 1939 CLEVE·	.325R
KELTNERRS	3B 1939 CLEVE	.325R
KELTNERRS	3B 1939 CLEVE	.325RHOME TEAM

360103700100
400480RS

T3500T3500T3500T3500T3500T3500T3500T3500T3500RS

| VISITORS | 03 11 02 |
| HOMETEAM | 14 19 01 |

| VISITORS | 13 17 00 |
| HOMETEAM | 03 15 02 |

| VISITORS | 00 08 02 |
| HOMETEAM | 03 12 01 |

| VISITORS | 14 21 02 |
| HOMETEAM | 02 06 02 |

| VISITORS | 03 14 02 |
| HOMETEAM | 03 12 02 |

| VISITORS | 12 22 00 |
| HOMETEAM | 03 15 02 |

| VISITORS | 12 17 03 |
| HOMETEAM | 11 18 03 |

| VISITORS | 03 03 01 |
| HOMETEAM | 10 13 00 |

| VISITORS | 03 15 00 |
| HOMETEAM | 07 14 03 |

VISITORS	02 04 01
HOMETEAM	04 13 00
10	
VISITORS	12 16 03
HOMETEAM	13 22 02

VISITORS	10 14 01
HOMETEAM	05 12 04
1011	
VISITORS	04 08 02
HOMETEAM	03 08 04

Note: Initial operator input
is circled. After the
message "HOME TEAM" above
was typed, the machine
was stopped, a team of
all Trosky's inserted,
(Trosky's record begins
in location 13500), and
play started. See detail
on page 8 under the section
called miscellaneous.

Note: In this simulation run
of 13 games, the "Keltner"
team won 8 games to 5 for
the "Trosky" team. The
"Troskys" however outhit
the "Keltners" 179-176.
A longer simulation run,
usually at least 200 to
400 games, is needed to
establish any sort of
numerical comparison.

```
00100  00 00 00 00 00 00 10 20 30 40 00 20 40 60 80 00 30 60 90 21
00140  00 40 80 21 61 00 50 01 51 02 00 60 21 81 42 00 70
00174  41 12820 08061  42
00188  23 00 90 81 72 63 00 00 00 00 00 50 60 70 80 90 01 21 41 61
00228  81 51 81 12 42 72 02 42 82 23 63 52 03 53 04 54 03 63 24 84
00268  45 53 24 94 65 36 04 84 65 46 27 54 45 36 27 18 01 23 45 67
00308  89 12 34 56 78 90 23 45 67 89 01 34 56 78 90 12 45 67 89 01
00348  23 56 78 90 12 34 67 89 01 23 45 78 90 12 34 56 89 01 23 45
00388  67 90 12 34 56 78 ‡0 00 00 01 02 91 75 53 24 35 91
00422  23 00421 00411  32 00090 00000  26 00421 00099  42
00460  00 00 05 02 19 24 79 37 62 67
00480  23 00479 00469  32 00090 00000  26 00479 00099
00516  42 56 49 19648 0
00528  05 19
00532  16 00567 T2499  21 00566 00519  26 00049 T3059  34 00000 00101
00580  25 00051 01717  43 00688 00049  25 00049 01717  43 00688 00047
00628  25 00047 01717  43 00688 00045  25 00045 01717  43 00688 00043
00676  25 00043 01717  39 00031 00100  42
00702  55 41 54 45 0‡ 63 45 41 54 0‡ 41 65 47 0‡ 42 41 63 62 0‡ 62
00742  43 56 59 45 0‡ 48 56 54 45 0‡ 65 49 62 49 63 56 59 62 0‡ 46
00782  49 59 62 63 0‡ 63 45 43 56 55 44 0‡ 63 48 49 59 44 0‡ 49 55
00822  55 49 55 47 0‡ 63 56 44 41 68 62 00 44 41 63 45 00 49 62 00
00862  0‡ 00 64 57 00 0‡ 00 59 64 55 55 45 59 00 62 43 56 59 45 62
00902  0‡ 00 63 66 56 00 59 64 55 62 00 62 43 56 59 45 0‡ 00 73 00
00942  59 64 55 62 00 43 56 54 45 00 49 55 0‡ 00 47 59 41 55 44 00
00982  62 53 41 54 0‡ 00 59 64 55 55 45 59 00 56 64 63 00 41 63 00
01022  48 56 54 45 0‡ 00 59 64 55 55 45 59 00 56 64 63 00 41 63 00
01062  63 48 49 59 44 0‡ 00 59 64 55 55 45 59 00 56 64 63 00 41 63
01102  00 62 45 43 56 55 44 0‡ 00 42 41 63 63 45 59 00 62 41 46 45
01142  00 41 63 00 46 49 59 62 63 0‡ 63 48 45 00 63 49 54 45 00 49
01182  62 00 0‡ 00 59 64 55 55 45 59 00 56 64 63 00 49 55 00 59 64
01222  55 44 56 66 55 0‡ 00 59 64 55 55 45 59 00 56 55 00 71 62 63
01262  0‡ 00 59 64 55 55 45 59 00 56 55 00 72 55 44 0‡ 00 59 64 55
01302  55 45 59 00 56 55 00 73 59 44 0‡ 00 59 64 55 55 45 59 62 00
01342  56 55 00 71 62 63 00 41 55 44 00 72 55 44 0‡ 00 59 64 55 55
01382  45 59 62 00 56 55 00 71 62 63 00 41 55 44 00 73 59 44 0‡ 00
01422  59 64 55 55 45 59 62 00 56 55 00 72 55 44 00 41 55 44 00 73
01462  59 44 0‡ 00 42 41 62 45 62 00 53 56 41 44 45 44 0‡ 00 42 41
01502  62 45 62 00 45 54 57 63 68 0‡ 59 64 55 62 0‡ 48 49 63 62 0‡
01542  45 59 59 56 59 00 45 55 55 43 45 59 00 68 56 64 59 00 53 49
01582  55 45 64 57 00 42 45 53 56 66 0‡ 67 67 0‡ 57 56 62 0‡ 55 56
01622  55 20 65 41 53 49 44 00 57 53 41 68 45 59 03 00 59 45 63 59
01662  68 03 0‡ 47 41 54 45 00 43 56 57 53 45 63 45 44 43 00 03 00 63
01702  56 63 41 53 62 0‡ 01 0‡ 00 20 0‡ 00 ‡0 0‡ ‡0 01 ‡0 04 ‡0 04
01742  ‡0 01 ‡0 04 ‡5 35 35 33 81 00 00 00 00 00 02
01772  14 01771 00000  46 01828 01200  34 00000 00102  12 01771 00001
01820  49 01772 0
01828  42 00
01832  14 01831 00000  46 01828 01200  34 00000 00101  12 01831 00001
01880  49 01832 0
01888  03 ‡1 69 50 T5 65 0T 62 00 T4 55 0T 40 50 T5 80 0T 72 00 T7
01928  75 0T 61 50 ‡1 56 00 T6 45 0T 68 00 T7 45 0T 76 50 T3 70 0T
01968  40 00 T4 95 0T 51 50 ‡0 90 80 03 0‡ 00 00 00 00 00 00 00 00
02008  00 00
```

```
02012  T5 1500̄4 1507̄1
02024  42 0̄‡ 0̄1 72 42 0̄‡ 0̄2 73 42 0̄‡ 0̄3 62 62 0̄‡ 0̄4 53 46 0̄‡ 0̄5 43
02064  46 0̄‡ 0̄6 59 46 0̄‡ 0̄7 43 00 0̄‡ 0̄8 57 00 0̄‡ 0̄9 0̄1 51 97
02100  11 02099 0̄0047  26 02135 02099  26 00031 T5197  42
02138  0̄1 51 94
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LAST CARD OF THE 20K BASEBALL DEMO
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LAST CARD OF THE 20K BASEBALL NO TYPE-OUT DEMO

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