

FLAVIUS JOSEPHUS GAME

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| | | | | |
|------|--|----------|----------|-------|
| Play | | Soldiers | Interval | Init. |
|------|--|----------|----------|-------|

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=====
      F L A V I U S   J O S E P H U S   G A M E
=====
Soldiers, surrounded by enemies, decide to
form a circle and commit suicide.
The nth from the left is executed.
As long as there are soldiers, the selection is
continued.
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You must be the last one to be saved!

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Step           Procedure                               Keys
-----
1 Initialization                                     E
2 Choose the number of soldiers (997 max)      n C
3 Choose the l'interval                             m D
4 Play : choose your place                         x A
    Repeat step 4 for another attempt...
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              Default : n = 40, m = 3
      (inspired by "Josephus" from Dave Ramey)
=====
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```
=====
josephus
=====
```



```

// ##### CHOOSE THE NUMBER OF SOLDIERS #####
LBL C
HIR 01 R/S

// ##### CHOOSE THE INTERVAL #####
LBL D
HIR 02 R/S

// ##### INITIALIZATION #####
LBL E
CMS
4 0 HIR 01
3 HIR 02
CUT ADV
OP 00
2 5 3 2 3 6 1 7 OP 03
3 3 2 3 4 1 3 6 0 0 OP 04 OP 55 OP 05 ADV
R/S

// ##### GAME #####
LBL A
CMS
INV STF 1
HIR 08
LBL DEG
HIR 11 STO 00
IFF 01 RAD
OP 30
LBL RAD
+ 1 = HIR 05 X/T
0 HIR 00

// ##### COUNT N SOLDIERS #####
LBL X2
HIR 12 STO 01
LBL LNX
1 HIR 30
HIR 10 GE COS
LBL SIN
STO 02 OP 22 OP 22
RC* 02 EQ LNX
DSZ 01 LNX

// ##### CHOOSE THE SOLDIER #####
INV IFF 1 P/R
1 X/T RCL 00 EQ SQR
LBL P/R
HIR 15
ST* 02 X/T
1 6 1 7 1 3 1 6 0 0 OP 04
HIR 10 OP 06
GTO 1/X
LBL SQR
HIR 15
ST* 02 X/T
3 6 1 3 2 1 1 7 0 0 OP 04
HIR 10 OP 06
LBL 1/X
IFF 1 GRD

```



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X/T HIR 18 EQ TAN
HIR 15 X/T
LBL GRD
NOP
DSZ 00 X2

// ##### BRAVO YOU ARE SAFE #####
ADV
IFF 1 YX
1 4 3 5 1 3 4 2 3 2 OP 04
HIR 18 OP 06
OP 00
4 5 3 2 4 1 0 0 1 3 OP 02
3 5 1 7 0 0 3 6 1 3 OP 03
2 1 1 7 0 0 7 3 0 0 OP 04
OP 05
1 4 3 5 1 3 4 2 3 2 OP 03
0 0 7 3 0 0 0 0 0 0 OP 04
OP 55
R/S
LBL YX
HIR 10
R/S

// ##### EXCEEDING THE MAXIMUM #####
LBL COS
- HIR 11 = HIR 00 GTO SIN
R/S

// ##### LOST YOU ARE DEAD #####
LBL TAN
ADV
OP 00
2 7 3 2 3 6 3 7 OP 01
7 3 0 0 4 5 3 2 OP 02
4 1 0 0 1 3 3 5 1 7 OP 03
1 6 1 7 1 3 1 6 OP 04
OP 05
2 7 3 2 3 6 3 7 OP 03
7 3 0 0 0 0 0 0 OP 04
OP 55
R/S

// ##### CHEAT #####
LBL E'
STF 1 CMS GTO DEG
R/S

```



| L A B E L S | | |
|-------------|----|-----|
| 001 | 13 | C |
| 006 | 14 | D |
| 011 | 15 | E |
| 053 | 11 | A |
| 061 | 60 | DEG |
| 072 | 70 | RAD |
| 083 | 33 | X2 |
| 089 | 23 | LNx |
| 098 | 38 | SIN |
| 123 | 37 | P/R |
| 148 | 34 | SQR |
| 171 | 35 | 1/X |
| 184 | 80 | GRD |
| 277 | 45 | YX |
| 282 | 39 | COS |
| 293 | 30 | TAN |
| 365 | 10 | E' |

| Adr | Branch. | | |
|-----|---------|----|-----|
| 1/X | 145 | 61 | GTO |
| COS | 095 | 77 | GE |
| DEG | 369 | 61 | GTO |
| GRD | 172 | 87 | IFF |
| LNx | 107 | 67 | EQ |
| LNx | 109 | 97 | DSZ |
| P/R | 113 | 87 | IFF |
| RAD | 066 | 87 | IFF |
| SIN | 289 | 61 | GTO |
| SQR | 120 | 67 | EQ |
| TAN | 178 | 67 | EQ |
| X2 | 186 | 97 | DSZ |
| YX | 190 | 87 | IFF |

| Reg. | Instr. | | |
|------|--------|----|-----|
| 00 | 064 | 42 | STO |
| | 118 | 43 | RCL |
| 01 | 086 | 42 | STO |
| 02 | 099 | 42 | STO |
| | 105 | 73 | RC* |
| | 126 | 72 | ST* |
| | 151 | 72 | ST* |

