

OS/78 V1
BASIC

Seq 70.70.1 N
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GOOD RANDOM NUMBERS FOR OS/8 BASIC

The following BASIC program may be used to generate really good random numbers. It should be noted that the RND function gives only 12 bits of precision and has a short period.

```
10 REM ** INITIALIZE RANDOM ARRAY **
20 DIM R8(55)
30 FOR R8=1 TO 55
40 R8(R8)=RND(0)+.00244141*RND(0)
50 NEXT R8
100 REM **DEMONSTRATION PROGRAM **
110 GOSUB 9000 / REM R=RANDOM VALUE
120 PRINT R;
130 GOTO 100
9000 REM ** SUBROUTINE: R=RANDOM VALUE **
9010 R8=R8-1
9020 IF R8>0 THEN 9040
9030 R8=55
9040 R9=R8-31
9050 IF R9>0 THEN 9070
9060 R9=R9+55
9070 R8(R8)=R8(R8)-R8(R9)
9080 IF R8(R8)>=0 THEN 9100
```