CEREAL PROGRAM WITH COMMENTARY (WILL NOT RUN)

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Input "TRIALS=",N                  USER SUPPLIES NUMBER N OF TRIALS
{0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,    LIST L2 RECORDS FREQUENCIES:
 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,    INITIALLY ALL ARE 0
 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
 0,0,0,0}→L2
L2→L1                              MAKE A LIST OF LENGTH 60 IN L1
For(I,1,60)                        MAKE L1 = {1,2,3,...,60}
I→L1(I)
End
0→A                                A WILL ULTIMATELY BE THE AVERAGE NUMBER
                                     BOUGHT.  RIGHT NOW IT IS THE TOTAL BOUGHT, INITIALLY
For(I,1,N)                         MAIN TRIAL LOOP
0→S                                  S IS HOW MANY MEDALS WE HAVE
0→C                                  C IS HOW MANY BOXES WE BOUGHT
{0,0,0,0,0,0}→L6                     RECORD WHICH MEDALS ACQUIRED
Repeat S=6                           BUY UNTIL 6 MEDaLS
C+1→C                                  BOUGHT ANOTHER BOX
randInt(1,6)→D                         WHAT MEDAL?
If L6(D)=0                             IF NEW MEDAL
Then
1→L6(D)                                  RECORD WE HAVE THIS NOW
S+1→S                                    RECORD ONE MORE MEDAL
End
End                                  END (BUYING ALL 6 MEDALS)
L2(C)+1→L2(C)                        RECORD THAT THIS TRIAL WE BOUGHT C BOXES
A+C→A                                UPDATE TOTAL BOUGHT
End                                END THIS TRIAL
L2/N→L2                            CONVERT FREQUENCY TO PROBABILITY
Disp "AVE",A/N                     CONVERT TOTAL TO AVERAGE
Pause
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