

```

100: # POISSON DISTRIBUTION
110: # POISSON_03.TXT;
120: # FOR CI-2, PERSEUS-8;
125: # MITSURU YAMADA;
130: # 2022/07/16;
140: #####;
160: # INPUT EXPECTED VALUE "R="
165: &
166: C=0;
168: K=0;
169: U=11;
170: #OCCURRENCE PROBABILITY CDF
180: # -- FACTORIAL --;
190: M=1;
200: L=0;
210: L=L 1+;
220: M=M L*;
230: L K?< 210!
240: # -- EXPONENTIATION --;
250: S=1;
260: T=0;
270: T=T 1+;
280: S=S R*;
290: T K?< 270!
295: K 0?= S=1;
300: # -- POISSON DIST --;
305: K;;
310: P=S -R)E* M/;;
312: C=C P+
315: K=K 1+;
317: K 5/)I 5* K- 0?= 500!
320: K U?< 190!
325: 80$=0;
330: # -- END --;
500: #PUSH KEY TO CONTINUE;;
505: 32768$ 2?= 505!
510: 32769$;
515: #
520: 320!
>!
  POISSON DISTRIBUTION
  INPUT EXPECTED VALUE "R="
R=2.5
2.50000E0
OCCURRENCE PROBABILITY CDF
0      8.20847E-2 8.20840E-2
1.00000E0 2.05211E-1 2.87295E-1
2.00000E0 2.56514E-1 5.43809E-1
3.00000E0 2.13761E-1 7.57570E-1
4.00000E0 1.33601E-1 8.91171E-1
PUSH KEY TO CONTINUE
5.00000E0 6.68005E-2 9.57971E-1
6.00000E0 2.78334E-2 9.85804E-1
7.00000E0 9.94053E-3 9.95744E-1
8.00000E0 3.10639E-3 9.98850E-1
9.00000E0 8.62891E-4 9.99712E-1
PUSH KEY TO CONTINUE
1.00000E1 2.15722E-4 9.99927E-1
>

```