

**227.** You simulate observations from a specific distribution  $F(x)$ , such that the number of simulations  $N$  is sufficiently large to be at least 95 percent confident of estimating  $F(1500)$  correctly within 1 percent.

Let  $P$  represent the number of simulated values less than 1500.

Determine which of the following could be values of  $N$  and  $P$ .

(A)  $N = 2000$        $P = 1890$

(B)  $N = 3000$        $P = 2500$

(C)  $N = 3500$        $P = 3100$

(D)  $N = 4000$        $P = 3630$

(E)  $N = 4500$        $P = 4020$