

在一组样本数据中,1,2,3,4 出现的概率分别为 p_1, p_2, p_3, p_4 , 且 $\sum p_i = 1$, 则下面四种情形中, 对应样本的标准差最大的一组是 ()

A. $p_1 = p_4 = 0.1, p_2 = p_3 = 0.4$

B. $p_1 = p_4 = 0.4, p_2 = p_3 = 0.1$

C. $p_1 = p_4 = 0.2, p_2 = p_3 = 0.3$

D. $p_1 = p_4 = 0.3, p_2 = p_3 = 0.2$