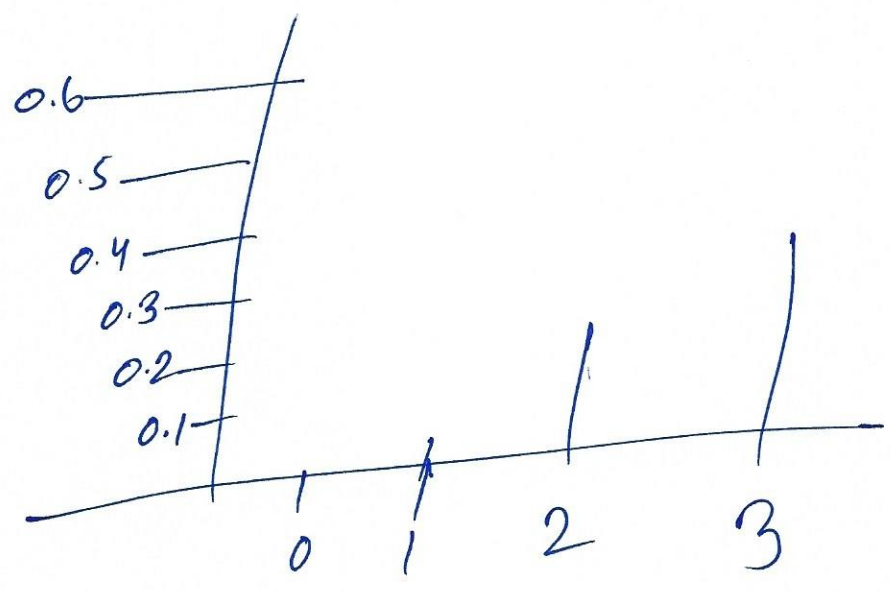


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* probability distribution:



* $\mu_x = \sum [x \cdot P(x)]$.

Compute the mean of the DRV X from

exr.

X	P(x)
0	0.07
1	0.10
2	0.38
3	0.51

$\boxed{x \cdot P(x) = 2.39}$

* Standard deviation of a DRV X is

given by:

$$\begin{aligned}\sigma_X &= \sqrt{E[(X - \mu_X)^2 \cdot P(X)]} \\ &= \sqrt{E[X^2 \cdot P(X)] - \mu_X^2}\end{aligned}$$