

If X is a discrete random variable with $P(X=x)$ for $x = x_1, x_2, x_3, \dots$ (in ascending order), then

$$P(X \leq x) = P(X=x_1) + P(X=x_2) + \dots + P(X=x_r) \text{ where } x_r \leq x$$

$$= \sum_{i=1}^r P(X = x_i)$$