



$$F(x) = \sum_{y=0}^{\lfloor x \rfloor} \binom{n}{y} p^y (1-p)^{n-y}$$

$\lfloor x \rfloor$ largest integer $\leq x$

$$F(x) = \begin{cases} 0, & x < 0 \\ f(0), & 0 \leq x < 1 \\ f(0) + f(1), & 1 \leq x < 2 \end{cases}$$