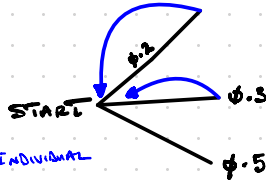


# PROJECT 1 ITEMS

→ Represents process to go back and re-dial the same person given it has not been up to 4 times.

① TREE DIAGRAM:

4 TOTAL LOOPS POSSIBLE PER INDIVIDUAL CALLED.



EDP GIVES ABILITY TO ANSWER WITHIN TIME

\*we assume a person can pick instantly!



$$\text{CDF EQUATIONS: } \begin{cases} 1 - e^{-\lambda x} & 0 \leq x \leq 25 \\ 0 & \text{otherwise} \end{cases} = F_x(x)$$

\* Previous attempts at calling do not factor into a redial. Each redial is treated as if a new individual is being called.

$$\text{where } \lambda = \frac{1}{\text{mean}} = \frac{1}{12} \text{ seconds}$$