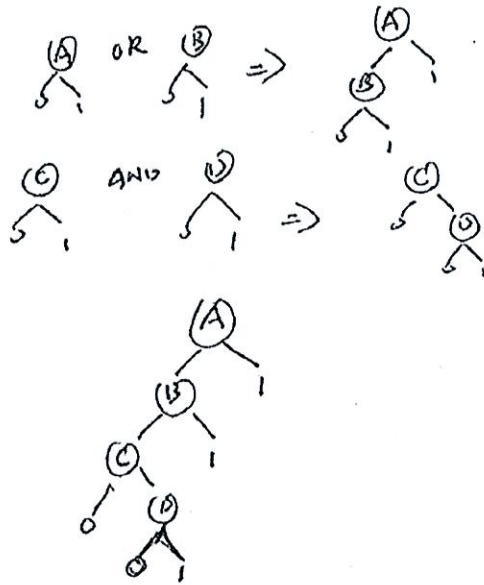


Extra.

1) BDD generation

$A < B < C < D$:



2) BDD evaluation using $q=0.1$

$$U_{sys} = q_A + (1-q_A) \cdot q_B + (1-q_A)(1-q_B) \cdot q_C \cdot q_D$$
$$= 0.1981$$

$$R_{sys} = 1 - U_{sys} = 0.8019$$

3) BDD evaluation using $\lambda=0.1/\text{year}$ and $t=2$ years

$$q = 1 - e^{-\lambda t} = 0.181269$$

$$U_{sys} = q_A + (1-q_A)q_B + (1-q_A)(1-q_B)q_Cq_D$$
$$= q + (1-q)q + (1-q)^2 q^2$$
$$= 0.351706$$

$$R_{sys} = 1 - U_{sys} = 0.648294$$