

Project estimation using CoComo model.

Software project type: Organic

~~1) Effort~~ Coefficient (effort factor) = 2.4

P = 1.05

T = 0.38

$$1) \text{ Effort} = 2.4 \times (8000 \div 1000)^{1.05}$$

$$= 21.30 \text{ person-months}$$

$$\approx 22 \text{ person months}$$

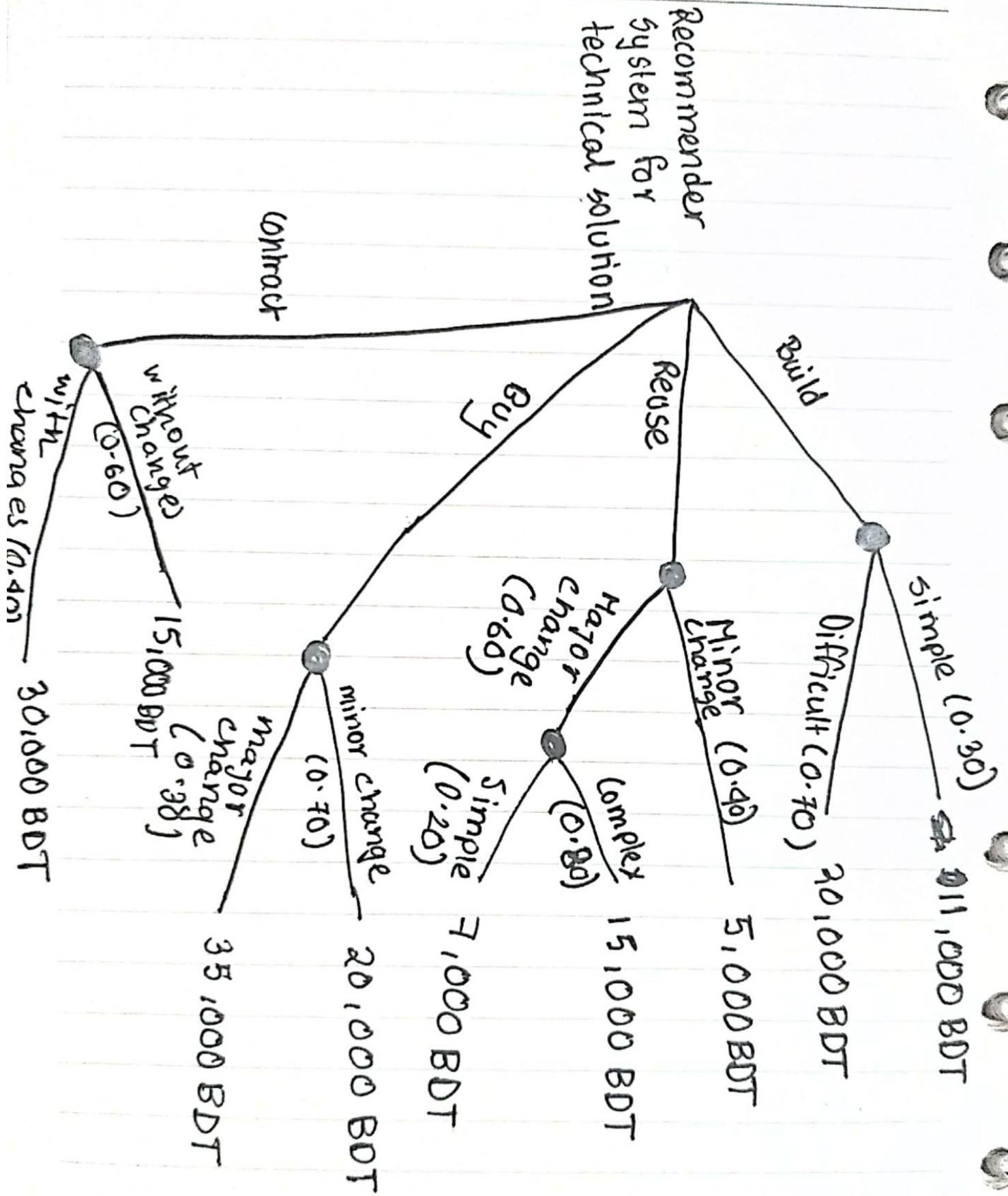
$$2) \text{ Development time: } 2.50 \times 22^{0.38} \\ = 8.092$$

3) Required number of people:

$$\frac{22}{8} = 2.75 \approx 3$$

Cost per unit effort : 500 BDT

$$\text{Cost} = (22 \times 500) = \cancel{11000 \text{ BDT}} \\ = 11,000 \text{ BDT}$$



Expected cost build:

$$\begin{aligned} &= (0.30 \times 11,000) + (0.70 \times 20,000) \\ &= 17,300 \text{ BDT} \end{aligned}$$

Expected cost reuse:

$$\begin{aligned} &(0.40 \times 5000) + (0.60 \times \{0.80 \times 15,000 \\ &\quad + 0.20 \times 7000\}) \\ &= 10,040 \text{ BDT} \end{aligned}$$

Expected cost buy:

$$\begin{aligned} &(0.70 \times 20,000 + 0.30 \times 35000) \\ &= 24,500 \text{ BDT} \end{aligned}$$

Expected cost contract:

$$\begin{aligned} &(0.60 \times 15000 + 0.40 \times 30,000) \\ &= 21,000 \text{ BDT} \end{aligned}$$