

2021

1) a) $\begin{matrix} 10010 & C_1 \\ 00110 & C_2 \end{matrix}$

b) ağırlık: 8 $\Rightarrow f_1 = 18$
ağırlık: 7 $\Rightarrow f_2 = 17$

c) $\begin{matrix} E_1: 10110 \\ E_2: 01010 \end{matrix} \left\{ \begin{matrix} \text{mask} \\ 10010 \end{matrix} \Rightarrow \begin{matrix} C_1: 11010 \\ C_2: 00110 \end{matrix} \right.$

$\begin{matrix} E_3: 10100 \\ E_4: 01010 \end{matrix} \left\{ \begin{matrix} \text{mask} \\ 00110 \end{matrix} \Rightarrow \begin{matrix} C_3: 01100 \\ C_4: 10010 \end{matrix} \right.$

$f_1 = 0, f_2 = 17, f_3 = 19, f_4 = 18$

2) a) mininizasyon (istemediğimiz durumda 1 arttırıyor)

b) $E_1: \begin{matrix} * & \cdot & \blacksquare & \cdot & * & \blacksquare & \cdot & \blacksquare \\ 5 & 6 & 1 & 4 & 7 & 3 & 2 & 8 \end{matrix}$

$E_2: \begin{matrix} 7 & 4 & 8 & 2 & 5 & 1 & 6 & 3 \\ * & \cdot & \blacksquare & \cdot & * & \blacksquare & \cdot & \blacksquare \end{matrix}$

$C_1: \begin{matrix} 5 & 4 & 1 & 2 & 7 & 3 & 6 & 8 \end{matrix}$

$f_1 = 1+1+1+2 = 5$

B B A A
C A B C

$C_2: \begin{matrix} 7 & 6 & 8 & 4 & 5 & 1 & 2 & 3 \end{matrix}$

$f_2 = 1+1+2+2 = 6$

C B C B
B A A A

② E_1 :

1	7	6	2	8	5	3	4
---	---	---	---	---	---	---	---

E_2 :

8	2	1	6	4	5	7	3
---	---	---	---	---	---	---	---

C_1 :

4	1	6	2	8	5	7	3
---	---	---	---	---	---	---	---

C_2 :

2	7	1	6	4	5	3	8
---	---	---	---	---	---	---	---

$$P_1 = 1 + 1 + 1 + 2 = \boxed{5}$$

B A B A
C B C A

$$P_2 = 1 + 1 + 1 + 2 + 1 = \boxed{6}$$

A C A B
B B A C