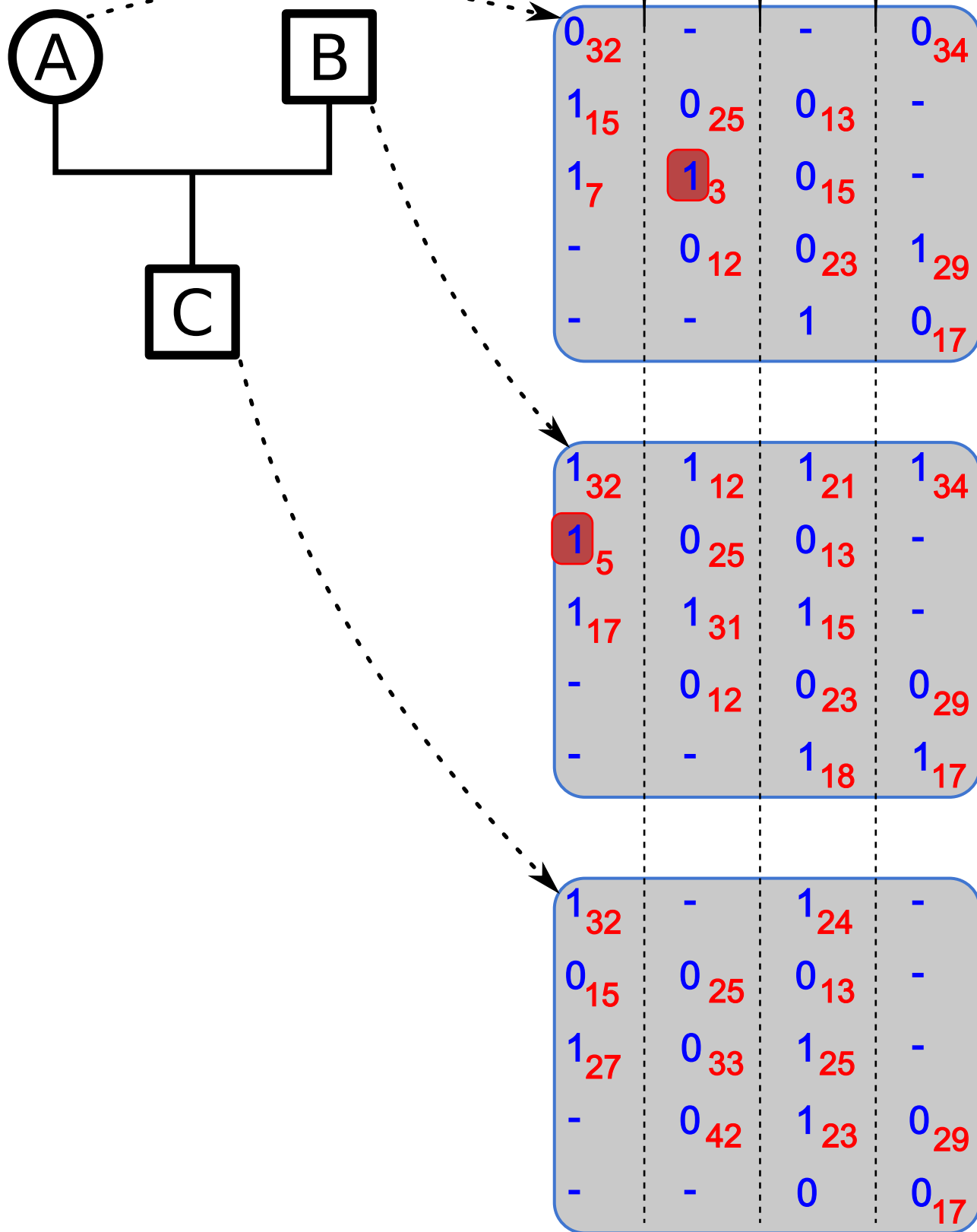
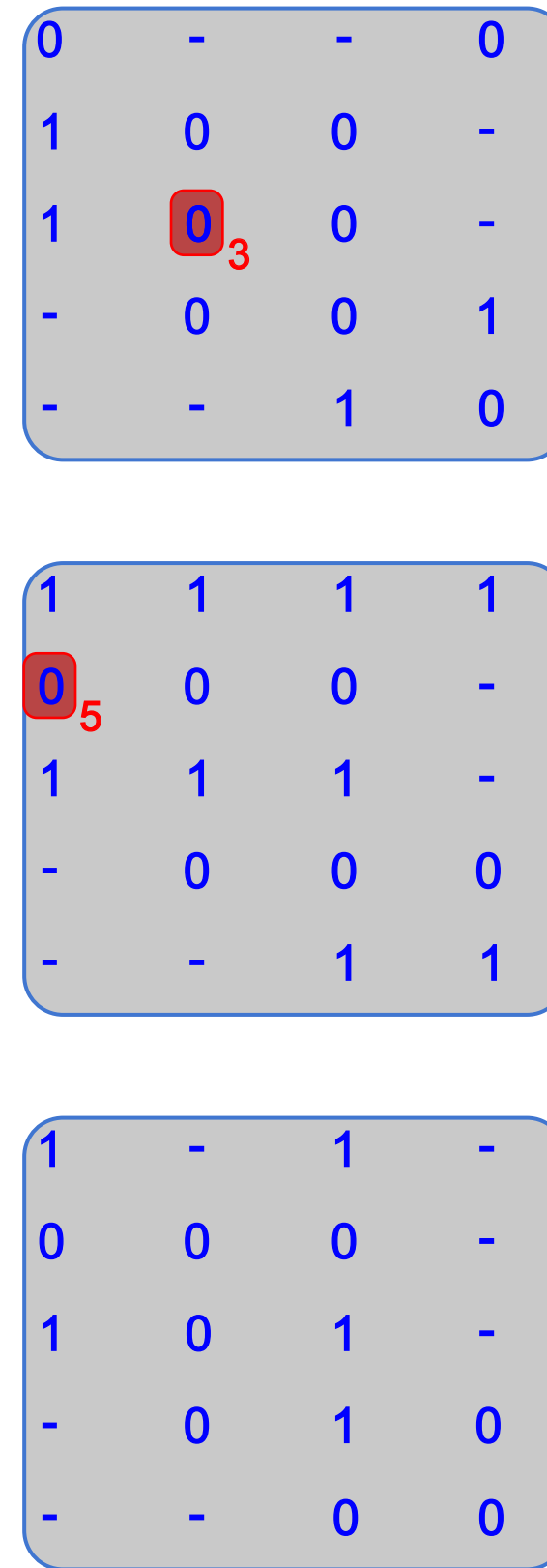


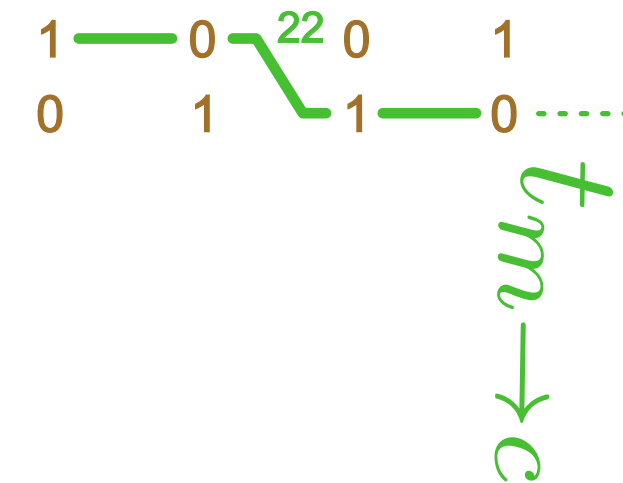
Input



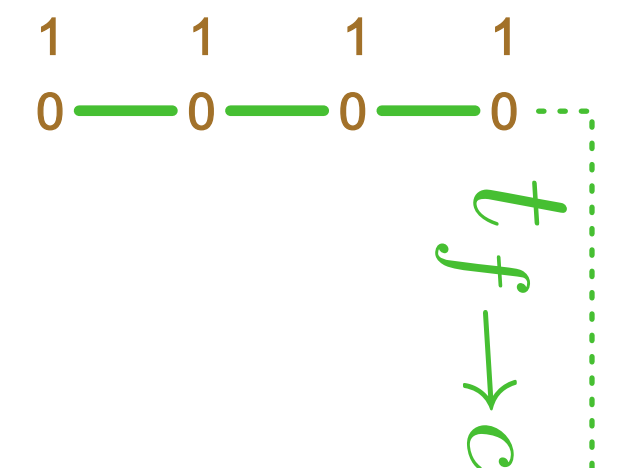
Output



haplotypes:



haplotypes:



haplotypes:



Cost: 3 + 5 + 22

minimize $\sum_{i \in \mathcal{I}} \sum_{(j,k) \in E_i} W_i(j,k) + \sum_{(m,f,c) \in \mathcal{T}} \mathcal{X}(t_{m \rightarrow c}) + \mathcal{X}(t_{f \rightarrow c})$