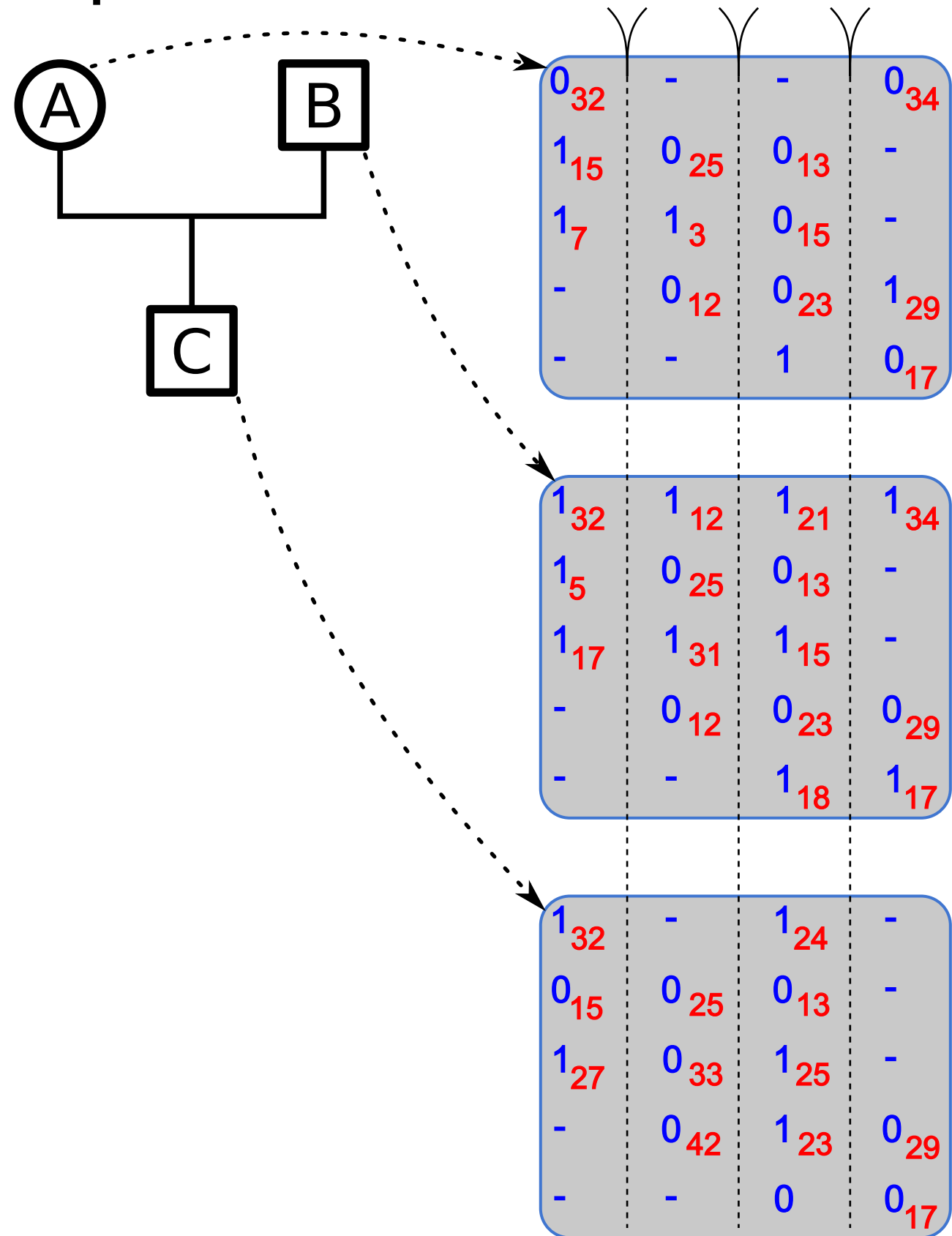


Input



$$\mathcal{F}_i \in \{0, 1, -\}^{R_i \times M}$$

$$W_i \in \mathbb{N}^{R_i \times M}$$

$$\mathcal{X} \in \mathbb{N}^M$$