



$$\text{margin}_{\text{left}} = \min \{p_{i,1}, p_{j,1}\}$$

$$\text{margin}_{\text{right}} = \min \{\text{length}_{R_i} - p_{i,1}, \text{length}_{R_j} - p_{i,1}\}$$

$$\text{length}_{\text{overlap}} = \text{margin}_{\text{left}} + \text{margin}_{\text{right}}$$