



$$\begin{aligned} \text{sim}^{\text{avg}}(\{A, B\}, T) &= (\text{sim}(A, A) + \text{sim}(B, B)) * 0.5 = (0 + 2) * 0.5 = 1 \\ \text{sim}^{\text{avg}}(\{A, C\}, T) &= (\text{sim}(A, A) + \text{sim}(C, C)) * 0.5 = (0 + 4) * 0.5 = 2 \\ \text{sim}^{\text{avg}}(\{A, D\}, T) &= (\text{sim}(A, A) + \text{sim}(D, C)) * 0.5 = (0 + 4) * 0.5 = 2 \\ \text{sim}^{\text{avg}}(\{B, C\}, T) &= (\text{sim}(B, B) + \text{sim}(C, C)) * 0.5 = (2 + 4) * 0.5 = 3 \\ \text{sim}^{\text{avg}}(\{B, D\}, T) &= (\text{sim}(B, B) + \text{sim}(D, C)) * 0.5 = (2 + 4) * 0.5 = 3 \\ \text{sim}^{\text{avg}}(\{C, D\}, T) &= (\text{sim}(C, C) + \text{sim}(D, C)) * 0.5 = (4 + 4) * 0.5 = 4 \end{aligned}$$