

Ignoring the crosses,

$$G_1 \rightarrow 0010-000000-0-010000-0-1-0000000000-1-1-0-0$$

$$G_2 \rightarrow 0010-000010-0-0100000-0-0-0000000001-0-1-0-0$$

1- is a placeholder for illegal edges, ignored when computing similarity.

$$\text{Hamming Distance} = 4$$

$$\text{Hamming Similarity} = 1 - \frac{HD}{\max(HD)} = 1 - \frac{4}{35} \approx 0.886$$

$\rightarrow \max(HD)$: length of string ignoring placeholders since they are illegal
 $= 35$

$$\text{Jaccard Similarity} = \frac{|G_1 \cap G_2|}{|G_1 \cup G_2|} = \frac{31}{39} \approx 0.794$$

$$\text{Jaccard Distance} = 1 - \text{Jaccard Similarity} \approx 0.206$$