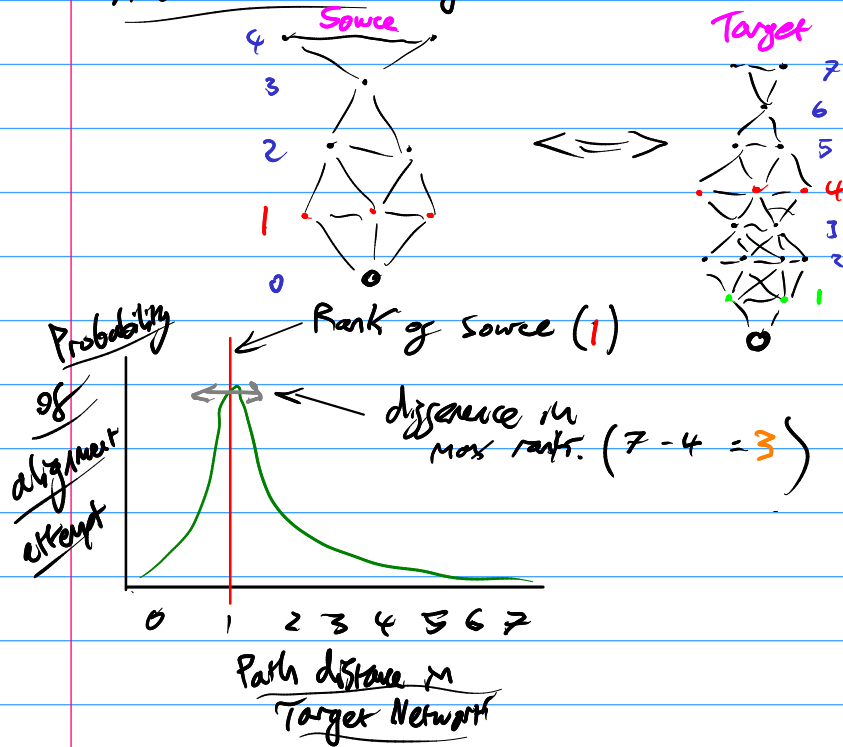


# GrEvo - Problems & Possible Solutions

## Problem 1 - Large Insertions or deletions

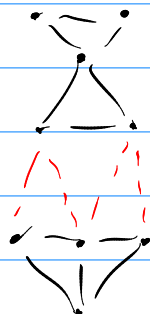
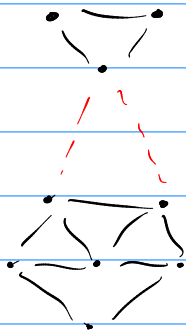


## Seed alignment (the body's node)

- Nodes that ought to be aligned but are not of the same path distance.
- Nodes that would be aligned in current global method.

Note, that in current method some misalignment is ok, so long as mutations correct for it in later steps.

## Problem 2 - Fragmented paths



--- Missing information

- Build Node similarity Matrix based on topology (graphlet degree) & bio similarity scores.
- Seed the alignment with maximally similar nodes, symmetrically.
- Greedy extend alignment using <sup>greedy</sup> S/PFA independently for each partially aligned sub graph.
- Missing subgraphs from either network assumed exchanged between networks and will be better lost or incorporated depending on the hill climb.