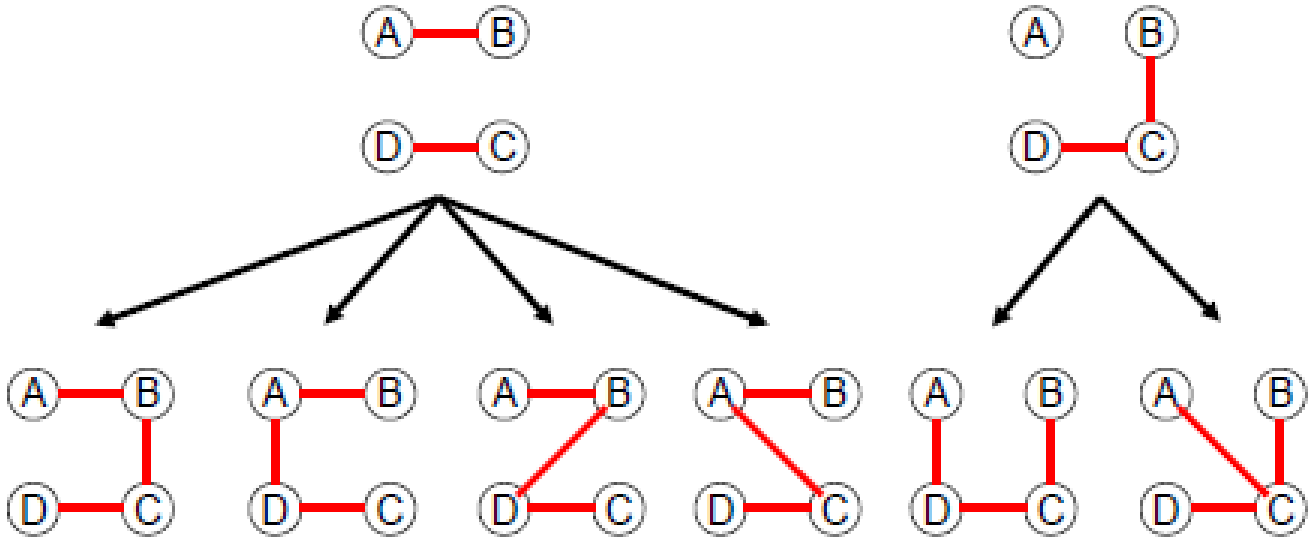
Local Beam Search

Travelling Salesman Problem

Keeps track of k states rather than just 1. k=2 in this example. Start with k randomly generated states.

Local Beam Search Example

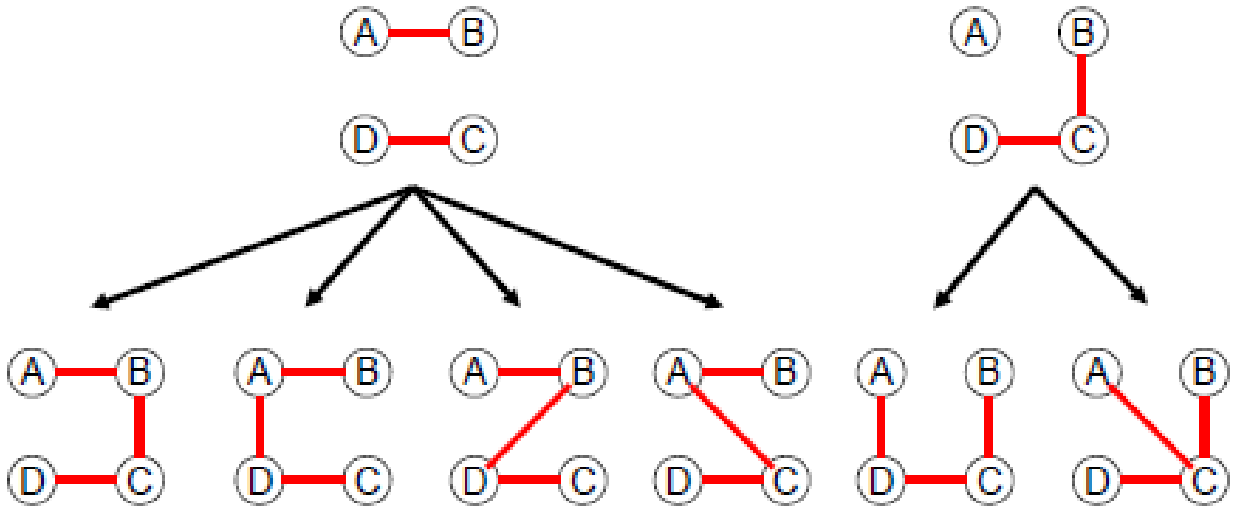
Travelling Salesman Problem (k=2)



Generate all successors of all the k states

Local Beam Search Example

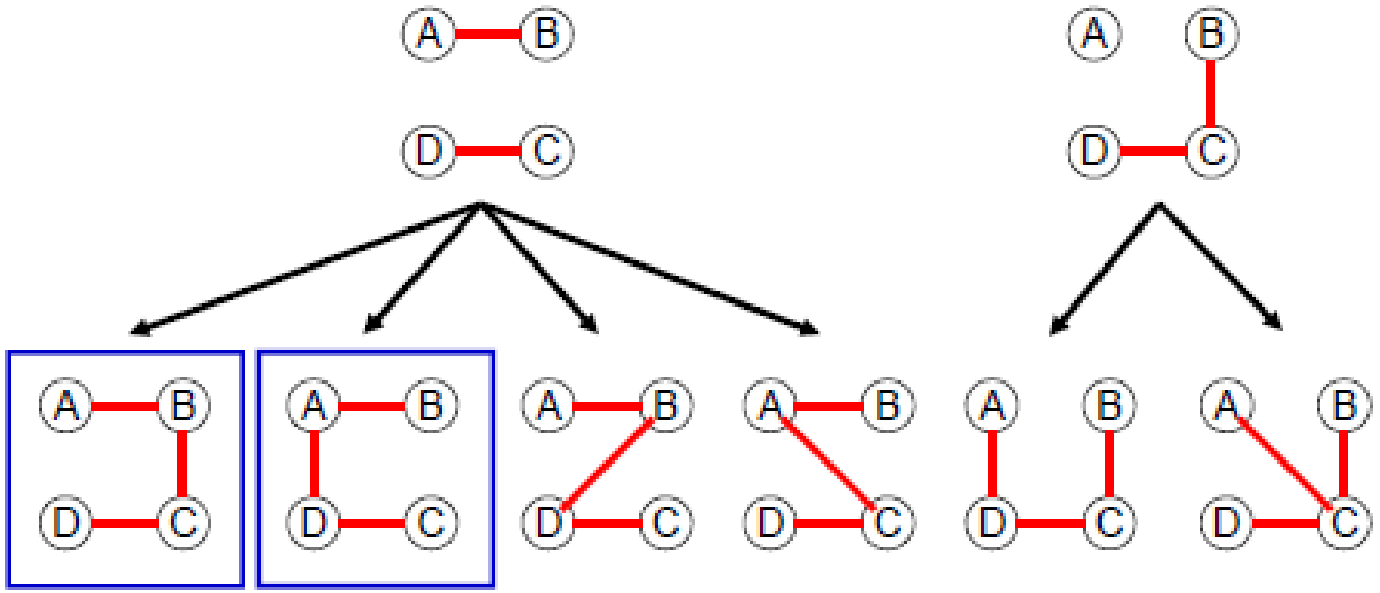
Travelling Salesman Problem (k=2)



None of these is a goal state so we continue

Local Beam Search Example

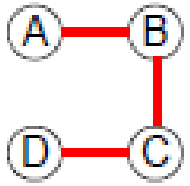
Travelling Salesman Problem (k=2)

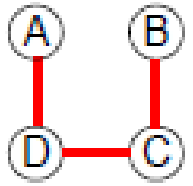


Select the best k successors from the complete list

Local Beam Search Example

Travelling Salesman Problem (k=2)





Repeat the process until goal found