State S. e(L-0-S-k)Neighbours: (D-L-S-k) (S-0-L-k) (S-0-K-S) (S-0-K-S) (S-0-K-S) (S-0-K-S) (S-0-K-S)

- (i) As we can see above, 2L-K-S-O>, which is one of initial state's neighbour, has lower cost of posts 1.2 21.4. Therefore next step should choose the state 2L-K-S-O>.
 - (ii) We stop until no neighbour of current state has a Cower value cost. If there exist a neighbour that has lower cost path, we change the state into the reighbour one.
 - (ii) We cannot ensure our solution is global optimal. Given the example:

 A 20

 Suppose we are to find minimum value of the tree. When we B 10 C 15

 at state A we compare the value B and C. And choose to continue search through B as B < C. We ignore the C state, continue search through B as B < C. We ignore the C state, but actually its child E has lowest value of all. We can only get D = 8 as local minimal.