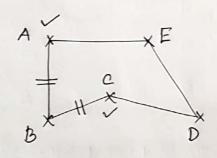
Two types of heuristics

- * Construction houristics

* Improvement heuristics - Nearest neighbour heuristics Insertion heuristics - greedy insertion - Cheapest insertion L Farthest insertion

Assignment 3

Travelling Salesman Problem



Satisficing -> Satisfying and sufficient.

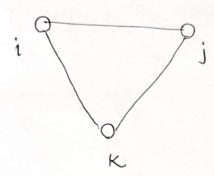
· Greedy insertion! D. E

e.g., we have to insert D in such point, so that the cost minimizes.

$$A-B-D-C-A$$

- 1. Which node I will insert?
- 2. Where will I insert that node?

· Cheapest insertion:



add: (i-k) +(k-j)

delete: (i-j)

-> We're taking lowest east.

Farthest insertion / Costliest insertion

-> We're taking costliest no edge.

→ This approach is used where we want to traverse the difficult paths first and then easy paths.