

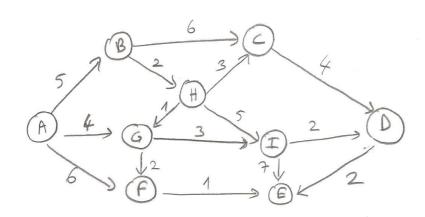
Depth First from A:

A, B, C, D, G, H, F, E, J, I

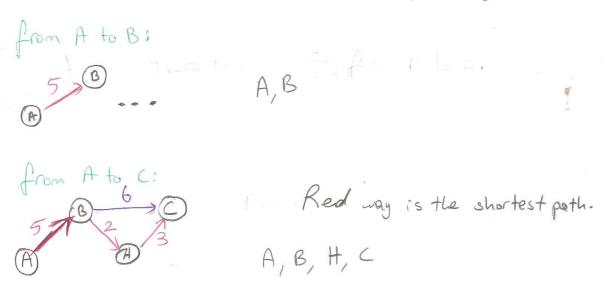
Breadth First from 'A':

A, B, C, E, D, H, F, G, I, J

Question 2 a)

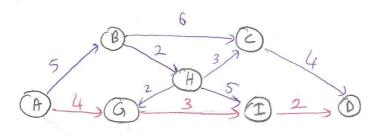


Find the shortest paths from A' to all other vertices using Dijkstra's shortest path algorithm.



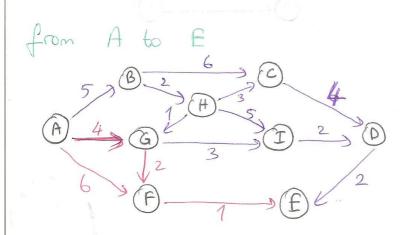
Boran Yildirim 21401947

from A to D



Red way is the shortest path.

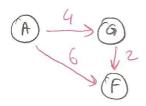
A, G, I, D



Two red ways are the shortest paths.

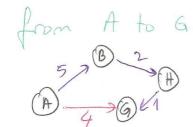
A, G, F, E A, F, E

from A to F



Two red ways are the shortest paths.

A, G, F A, F

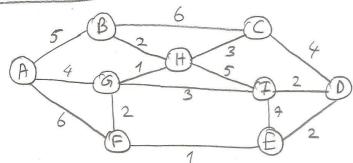


Red way is the shortest path.

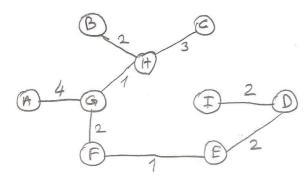
A, G

Question 26)

Boran Yıldırım 21401947



Find the minimum spanning tree using Prim's algorithm. Start at vertex "I".



The weight of the minimum sponning tree is