The Shortest Path Algorithm. (Algorithm Moore)
(How to find the shortest path from vertex s to vertex t)
1-Label Vertex **s** with 0.

2- set i=0

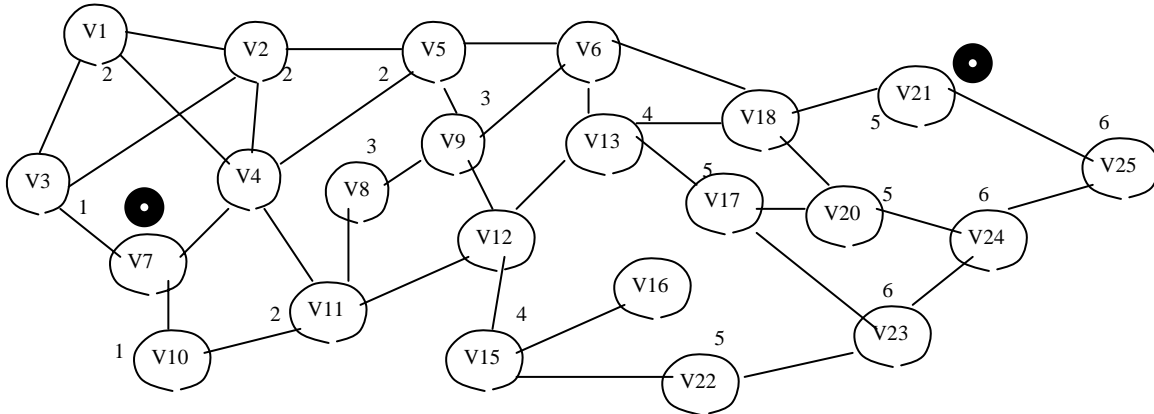3-Find all unlabeled vertices adjacent to a vertex labeled i.

4- Label the vertices just found with i+1

5- If vertex **t** is labeled then **backtracking** gives the shortest path.
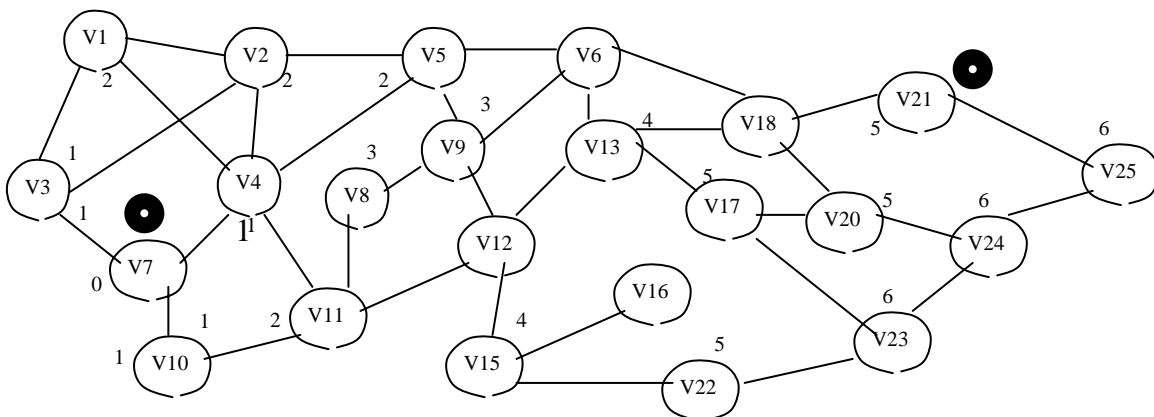
Example:

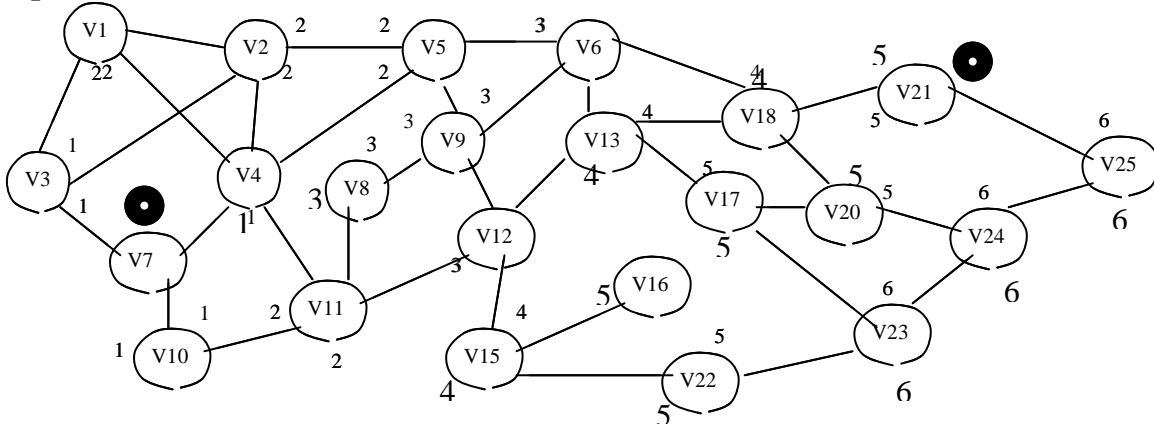Find the shortest path from v7 to v21 in the following graph using Moore's Algortihm

All edges are equal. (here s=v7 and   t=v21)

Step 1.

Step …..

Shortest Path: V21-V18-V6-V5-V4-V7