Mark distribution for each topic in uploaded exam is same.  
  
Q6 case study: new to us  
-eg need many searches, need ADT that’s good with searches.  
-How would u structure, how would use keys, runtime efficiency, advantages, disadvantages.

**Graphs**

**Directed Graphs**

Discovery edges  
Back edges  
  
DFS: allows us to see reachability’s.  
Strong connectivity: every verticy can reach every other verticy  
  
If you cant reach a node in a graph, orphan nodes: an issue

Directed Acylic graph: Does not allow cycles  
Cycles is when on a root, you visit a node 2+