Graph 1

BFS

1. Frontier Queue = A
   Discovered = A
   Visiting = A
2. Fronter Queue = D, G, E
   Discovered = A, D, G, E
   Visiting = A
3. Frontier Queue = G, E
   Discovered = A, D, G, E
   Visiting = D
4. Frontier Queue = E, F
   Discovered = A, D, G, E, F
   Visiting = G
5. Frontier Queue = F, B, C
   Discovered = A, D, G, E, F, B, C
   Visiting = E
6. Frontier Queue = B, C, H
   Discovered = A, D, G, E, F, B, C, H
   Visiting = F
7. Frontier Queue = C, H, I
   Discovered = A, D, G, E, F, B, C, H, I
   Visiting = B
8. Frontier Queue = H, I
   Discovered = A, D, G, E, F, B, C, H, I
   Visiting C
9. Frontier Queue = I
   Discovered = A, D, G, E, F, B, C, H, I
   Visiting = H
10. Frontier Queue = J
    Discovered = A, D, G, E, F, B, C, H, I, J
    Visiting = I
11. Frontier Queue = (Empty)
    Discovered = A, D, G, E, F, B, C, H, I, J
    Visiting = J
12. Frontier Queue = (Empty)
    Discovered = A, D, G, E, F, B, C, H, I, J
    Visiting = (Done)

DFS

1. Visiting = A
   Discovered = A
2. Visiting = E
   Discovered = A, E
3. Visiting = B
   Discovered = A, E, B
4. Visiting = I
   Discovered = A, E, B, I
5. Visiting = J
   Discovered = A, E, B, I, J
   Reached a last vertex
   Backtracking
   - **I (No Adjacent)**
   - **B (No Adjacent)**
   - **E (Has Adjacent)**
6. Visiting = C
   Discovered = A, E, B, I, J, C
   Reached Last vertex
   Backtracking
   - **E (No Adjacent)**
   - **A (Back to start changing to new path)**
7. Visiting = G
   Discovered = A, E, B, I, J, C, G
8. Visiting = F
   Discovered = A, E, B, I, J, C, G, F
9. Visiting = H
   Discovered = A, E, B, I, J, C, G, F, H
   Reached Last vertex
   Backtracking
   - **F (No Adjacent)**
   - **G (No Adjacent)**
   - **A (Back to Start changing to new path)**

10. Visiting = D
    Discovered = A, E, B, I, J, C, G, F, H, D

Graph 2