

Stack Queue.

BFS — [REDACTED]
[REDACTED]: Queue ([REDACTED])
[REDACTED]: FIFO ([REDACTED] [REDACTED] [REDACTED] [REDACTED])

██████ BFS:

A → B, C
B → D, E
C → F

■■■■■ BFS:

1. Queue = [A]
2. ■■■■■ A → ■■■■■ B, C → Queue = [B, C]
3. ■■■■■ B → ■■■■■ D, E → Queue = [C, D, E]
4. ■■■■■ C → ■■■■■ F → Queue = [D, E, F]
5. ■■■■■ D → Queue = [E, F]
6. ■■■■■ E → Queue = [F]
7. ■■■■■ F → Queue = []

DFS — [REDACTED]
[REDACTED]: Stack ([REDACTED])
[REDACTED]: LIFO ([REDACTED] [REDACTED] [REDACTED] [REDACTED])

A horizontal search tree diagram illustrating Depth-First Search (DFS). The root node is labeled 'DFS:'. Below it, a series of nodes are shown as black squares of varying widths. The first node is very wide, representing the current node being expanded. Subsequent nodes are progressively narrower, representing nodes in the frontier. The tree structure shows the search progressing from left to right.

DFS:
1. Stack = [A]
2. A → C, B → Stack = [C, B]
3. B → D, E → Stack = [C, E, D]
4. D → Stack = [C, E]
5. E → Stack = [C]
6. C → F → Stack = [F]
7. F → Stack = []