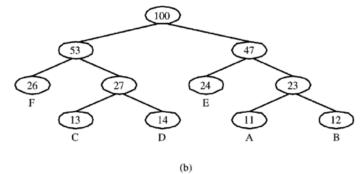
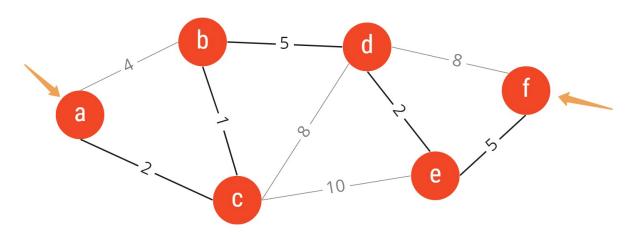
| Symbol | Frequency | Encoding type | | |
|--------|-----------|---------------|-----|-------|
| | | One | Two | Three |
| A | 11 | 000 | 111 | 000 |
| В | 12 | 001 | 110 | 001 |
| С | 13 | 100 | 011 | 010 |
| D | 14 | 101 | 010 | 011 |
| Е | 24 | 01 | 10 | 10 |
| F | 26 | 11 | 00 | 11 |

(a)



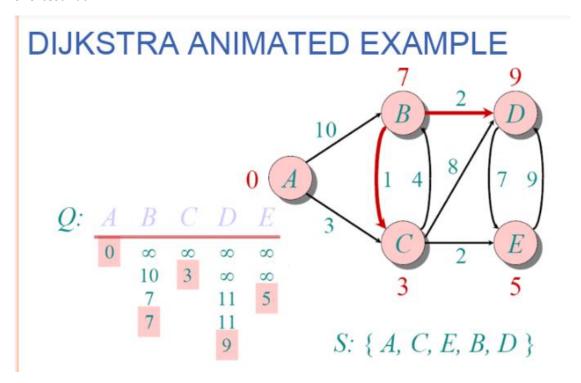
miro

Huffman

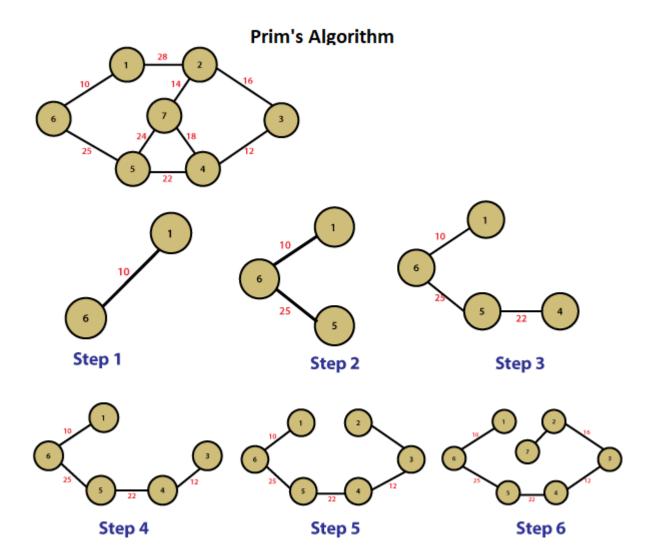


$$2 + 1 + 5 + 2 + 5 = 15$$

Shortest Path

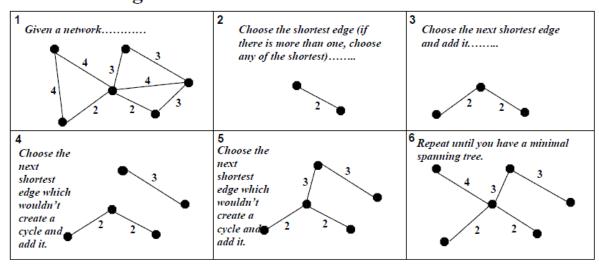


Dijkstra

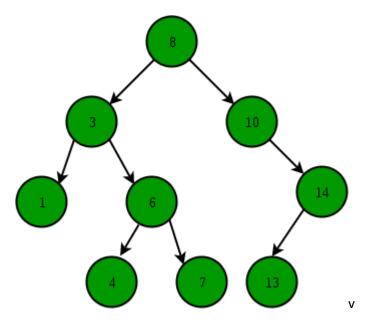


Prim

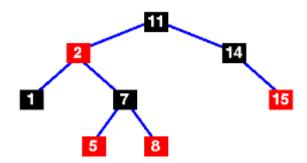
Kruskal's Algorithm



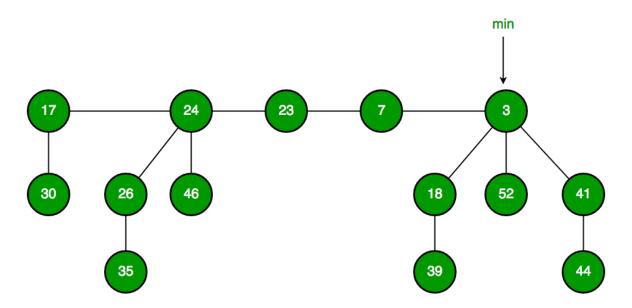
Kruskall



Binary search tree



Red black search tree



Fibonacci heap