

Dijkstra's Algorithm (SSSP)

伪代码:

```
1  DijkstraSSSP(G, s)
2  foreach (Vertex v : G):
3      d[v] = +inf
4      p[v] = NULL
5  d[s] = 0
6
7  PriorityQueue Q // min distance, defined by d[v]
8  Q.buildHeap(G.vertices())
9  Graph T          // "labeled set"
10
11 repeat n times:
12     Vertex u = Q.removeMin()
13     T.add(u)
14     foreach (Vertex v: neighbors of u not in T):
15         if cost(u, v) + d[u] < d[v]:
16             d[v] = cost(u, v) + d[u]
17             p[v] = u
```

时间复杂度

和Prim的最小生成树一样

Floyd-Warshall's Algorithm