Dijkstra's Algorithm (SSSP)

What is the running time?

```
DijkstraSSSP(G, s):
     foreach (Vertex v : G):
       d[v] = +inf
      p[v] = NULL
     d[s] = 0
10
     PriorityQueue Q // min distance, defined by d[v]
11
     Q.buildHeap(G.vertices())
12
     Graph T
                     // "labeled set"
13
14
15
     repeat n times:
16
       Vertex u = Q.removeMin()
17
       T.add(u)
18
       foreach (Vertex v : neighbors of u not in T):
19
20
           d[v] =
21
           p[v] = m
```