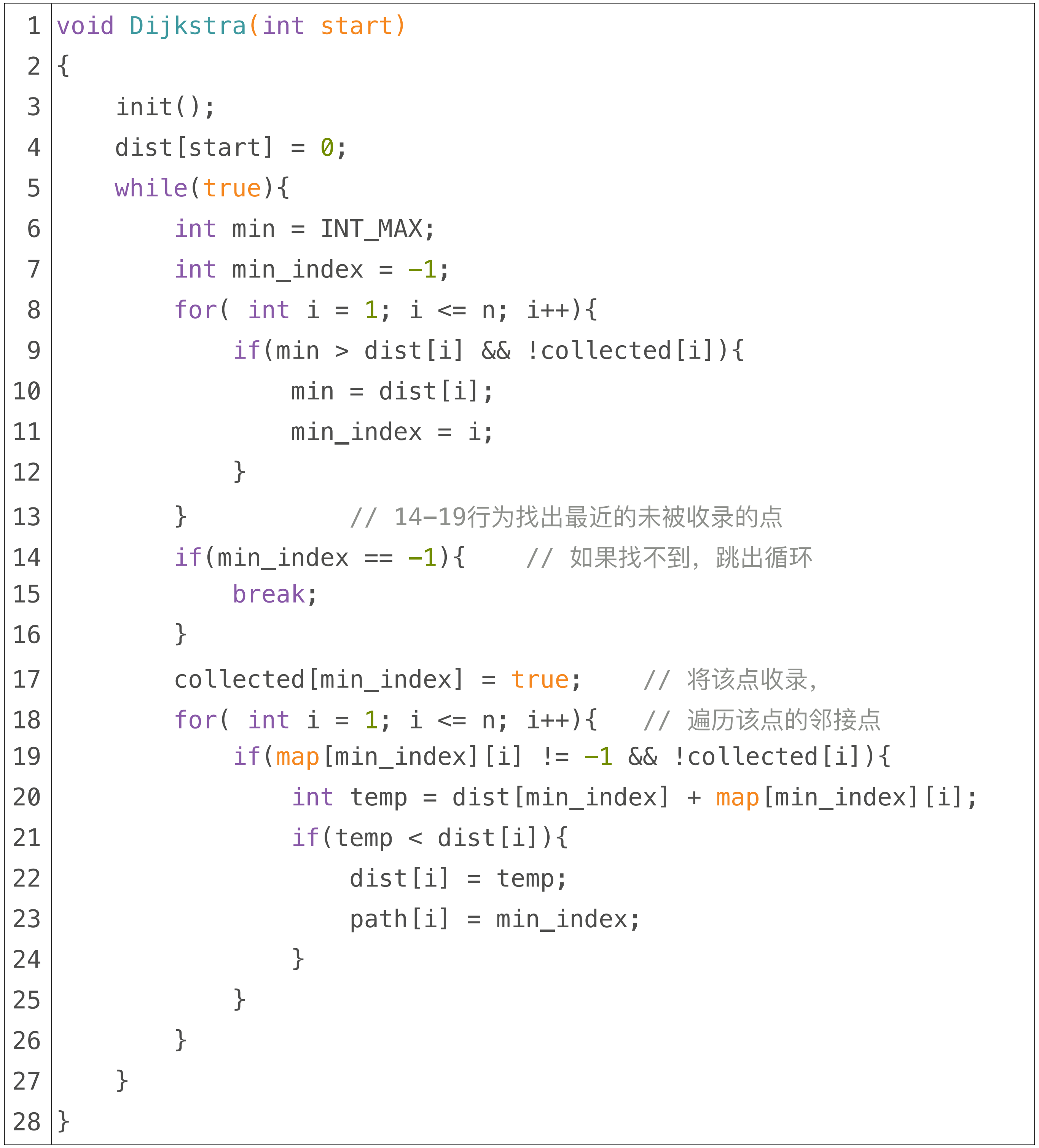

```
 1 void Dijkstra(int start)
 2 {
 3     init();
 4     dist[start] = 0;
 5     while(true){
 6         int min = INT_MAX;
 7         int min_index = -1;
 8         for( int i = 1; i <= n; i++){
 9             if(min > dist[i] && !collected[i]){
10                 min = dist[i];
11                 min_index = i;
12             }
13         }            // 14-19行为找出最近的未被收录的点
14         if(min_index == -1){    // 如果找不到，跳出循环
15             break;
16         }
17         collected[min_index] = true;    // 将该点收录，
18         for( int i = 1; i <= n; i++){   // 遍历该点的邻接点
19             if(map[min_index][i] != -1 && !collected[i]){
20                 int temp = dist[min_index] + map[min_index][i];
21                 if(temp < dist[i]){
22                     dist[i] = temp;
23                     path[i] = min_index;
24                 }
25             }
26         }
27     }
28 }
```

Dijkstra 算法演示