叶子繁 201730684427

11.3

a) 0 10 0 20 0 3

10 0 3 5 0 0

0 3 0 0 15 0

20 5 0 0 11 10

0 0 15 11 0 3

2 0 0 10 3 0

b) 1->2(10)->4(20)->6(3)

2->1(10)->3(3)->4(5)

3->2(3)->5(15)

4->1(20)->2(5)->5(11)->6(10)

5->3(15)->4(11)->6(3)

6->1(3)->4(10)->5(3)

c) Adjacency matrix: 2 \* |V| ^ 2 = 72

Adjacency list: 2 \* 6 + 8 \* 18 = 156

Adjacency list requires more space.

d) Adjacency matrix: 2 \* |V| ^ 2 = 72

Adjacency list: 2 \* 6 + 7 \* 18 = 138

Adjacency list requires more space.

11.4 && 11.6

