

Initial distance matrix:

0 16 INF 2 INF INF 11 INF
INF 0 6 INF INF INF INF INF
INF INF 0 INF INF INF INF INF
INF INF 8 0 3 INF INF INF
INF INF INF INF 0 INF INF INF
INF INF INF INF 2 0 7 INF
INF INF INF INF INF INF 0 INF
INF 5 INF INF INF 4 INF 0

Initial next matrix: (A 到其他点的路径)

[illegible]

Updated distance matrix:

0 16 22 2 INF INF 11 INF
INF 0 6 INF INF INF INF INF
INF INF 0 INF INF INF INF INF
INF INF 8 0 3 INF INF INF
INF INF INF INF 0 INF INF INF
INF INF INF INF 2 0 7 INF
INF INF INF INF INF INF 0 INF
INF 5 INF INF INF 4 INF 0

Updated next matrix:

[illegible]

Updated distance matrix:

0	16	22	2	INF	INF	11	INF
INF	0	6	INF	INF	INF	INF	INF
INF	INF	0	INF	INF	INF	INF	INF
INF	INF	8	0	3	INF	INF	INF
INF	INF	INF	INF	0	INF	INF	INF
INF	INF	INF	INF	2	0	7	INF
INF	INF	INF	INF	INF	INF	0	INF
INF	5	11	INF	INF	4	INF	0

Updated next matrix:

0	1	1	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	1	3	4	5	6	7

Updated distance matrix:

0	16	10	2	INF	INF	11	INF
INF	0	6	INF	INF	INF	INF	INF
INF	INF	0	INF	INF	INF	INF	INF
INF	INF	8	0	3	INF	INF	INF
INF	INF	INF	INF	0	INF	INF	INF
INF	INF	INF	INF	2	0	7	INF
INF	INF	INF	INF	INF	INF	0	INF
INF	5	11	INF	INF	4	INF	0

Updated next matrix:

0	1	3	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	1	3	4	5	6	7

Updated distance matrix:

0	16	10	2	5	INF	11	INF
INF	0	6	INF	INF	INF	INF	INF
INF	INF	0	INF	INF	INF	INF	INF
INF	INF	8	0	3	INF	INF	INF
INF	INF	INF	INF	0	INF	INF	INF
INF	INF	INF	INF	2	0	7	INF
INF	INF	INF	INF	INF	INF	0	INF
INF	5	11	INF	INF	4	INF	0

Updated next matrix:

0	1	3	3	3	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	1	3	4	5	6	7

Updated distance matrix:

0	16	10	2	5	INF	11	INF
INF	0	6	INF	INF	INF	INF	INF
INF	INF	0	INF	INF	INF	INF	INF
INF	INF	8	0	3	INF	INF	INF
INF	INF	INF	INF	0	INF	INF	INF
INF	INF	INF	INF	2	0	7	INF
INF	INF	INF	INF	INF	INF	0	INF
INF	5	11	INF	6	4	INF	0

Updated next matrix:

0	1	3	3	3	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	1	3	5	5	6	7

Updated distance matrix:

0	16	10	2	5	INF	11	INF
INF	0	6	INF	INF	INF	INF	INF
INF	INF	0	INF	INF	INF	INF	INF
INF	INF	8	0	3	INF	INF	INF
INF	INF	INF	INF	0	INF	INF	INF
INF	INF	INF	INF	2	0	7	INF
INF	INF	INF	INF	INF	INF	0	INF
INF	5	11	INF	6	4	11	0

Updated next matrix:

0	1	3	3	3	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	1	3	5	5	5	7

Final distance matrix after Floyd-Warshall:

Final distance matrix:

0	16	10	2	5	INF	11	INF
INF	0	6	INF	INF	INF	INF	INF
INF	INF	0	INF	INF	INF	INF	INF
INF	INF	8	0	3	INF	INF	INF
INF	INF	INF	INF	0	INF	INF	INF
INF	INF	INF	INF	2	0	7	INF
INF	INF	INF	INF	INF	INF	0	INF
INF	5	11	INF	6	4	11	0

Final next matrix after Floyd-Warshall:

Final next matrix:

0	1	3	3	3	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7
0	1	1	3	5	5	5	7

Shortest path from 0 to 1: 0 -> 1

Shortest Distance: 16

Shortest path from 0 to 2: 0 -> 3 -> 2

Shortest Distance: 10

Shortest path from 0 to 3: 0 -> 3

Shortest Distance: 2

Shortest path from 0 to 4: 0 -> 3 -> 4

Shortest Distance: 5

Shortest path from 0 to 5: 0 -> 5

Shortest Distance: Infinity

Shortest path from 0 to 6: 0 -> 6

Shortest Distance: 11

Shortest path from 0 to 7: 0 -> 7

Shortest Distance: Infinity