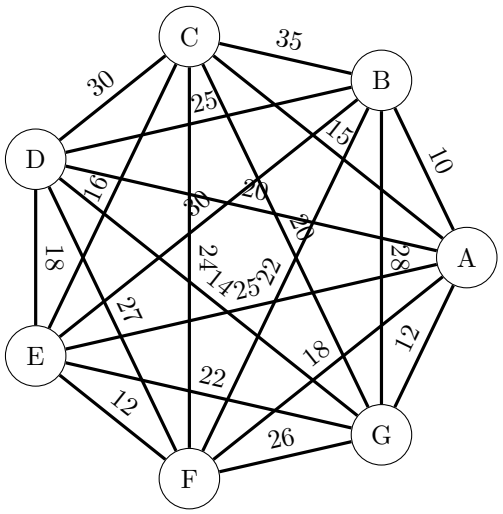
TSP

TSP Log

```
Initial State
```

TSP Graph



Distance Matrix

0	10	15	20	25	18	12
10	0	35	25	30	22	28
15	35	0	30	16	24	20
20	25	30	0	18	27	14
25	30	16	18	0	12	22
18	22	24	27	12	0	26
12	28	20	14	22	26	0

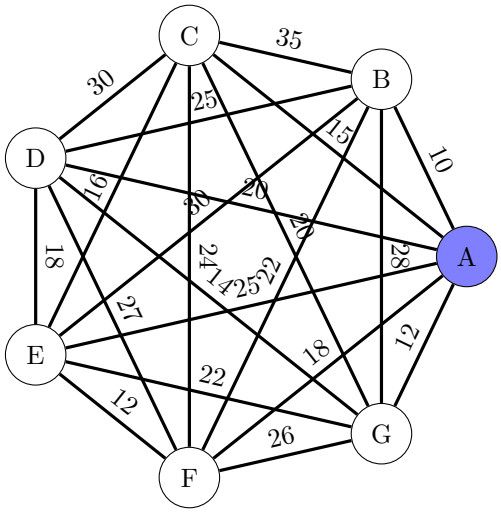
Tour Cost

TSP

TSP Log

```
Start at city A
```

TSP Graph



Distance Matrix

0	10	15	20	25	18	12
10	0	35	25	30	22	28
15	35	0	30	16	24	20
20	25	30	0	18	27	14
25	30	16	18	0	12	22
18	22	24	27	12	0	26
12	28	20	14	22	26	0

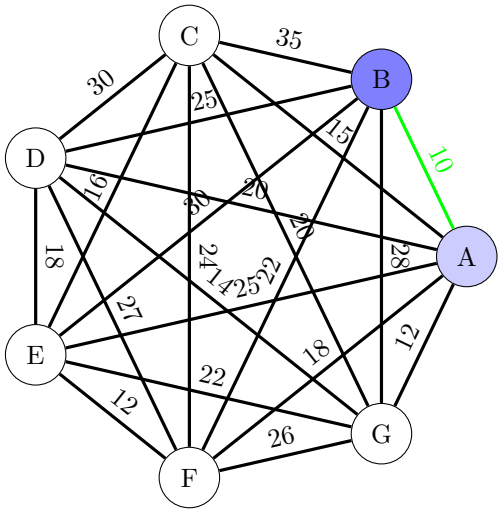
Tour Cost

TSP

TSP Log

```
Move to B with distance 10
```

TSP Graph



Distance Matrix

0	10	15	20	25	18	12
10	0	35	25	30	22	28
15	35	0	30	16	24	20
20	25	30	0	18	27	14
25	30	16	18	0	12	22
18	22	24	27	12	0	26
12	28	20	14	22	26	0

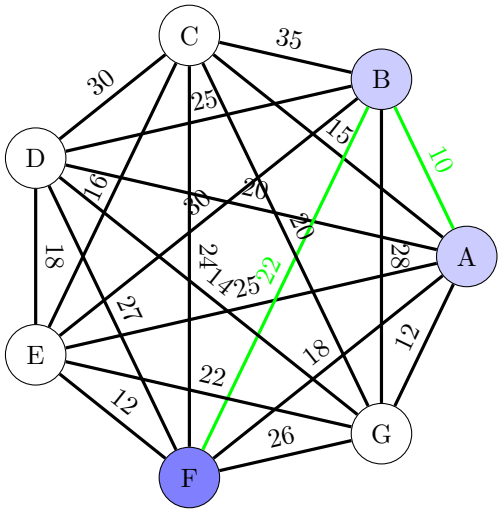
Tour Cost

TSP

TSP Log

```
Move to F with distance 22
```

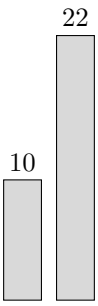
TSP Graph



Distance Matrix

0	10	15	20	25	18	12
10	0	35	25	30	22	28
15	35	0	30	16	24	20
20	25	30	0	18	27	14
25	30	16	18	0	12	22
18	22	24	27	12	0	26
12	28	20	14	22	26	0

Tour Cost

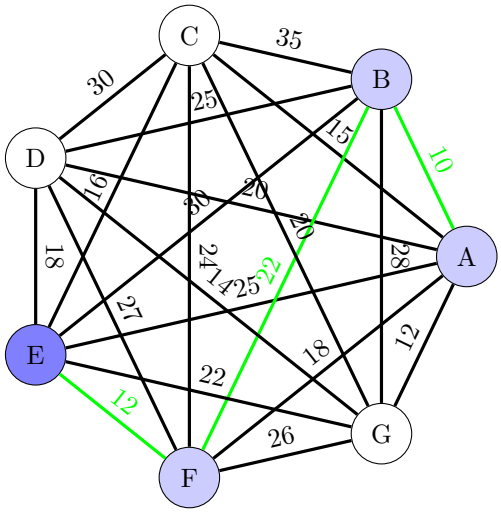


TSP

TSP Log

```
Move to E with distance 12
```

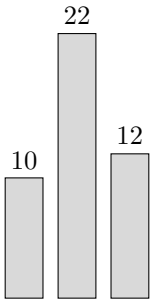
TSP Graph



Distance Matrix

0	10	15	20	25	18	12
10	0	35	25	30	22	28
15	35	0	30	16	24	20
20	25	30	0	18	27	14
25	30	16	18	0	12	22
18	22	24	27	12	0	26
12	28	20	14	22	26	0

Tour Cost

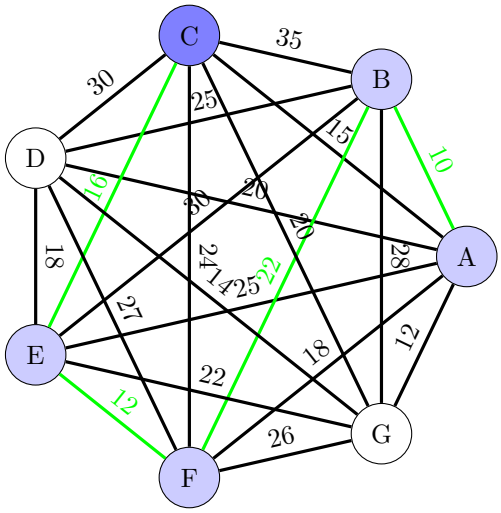


TSP

TSP Log

```
Move to C with distance 16
```

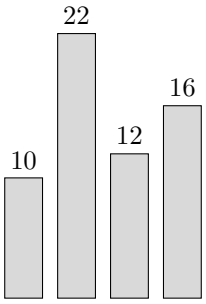
TSP Graph



Distance Matrix

0	10	15	20	25	18	12
10	0	35	25	30	22	28
15	35	0	30	16	24	20
20	25	30	0	18	27	14
25	30	16	18	0	12	22
18	22	24	27	12	0	26
12	28	20	14	22	26	0

Tour Cost

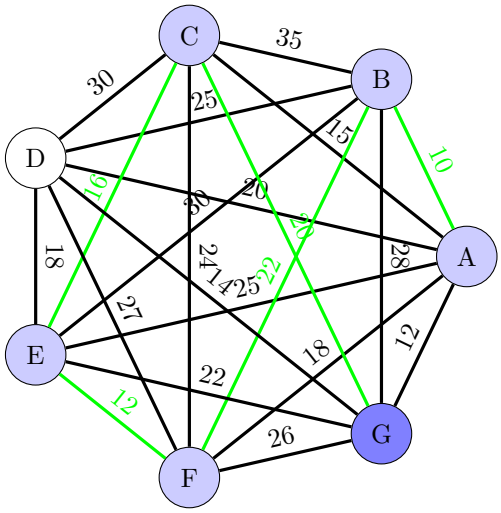


TSP

TSP Log

```
Move to G with distance 20
```

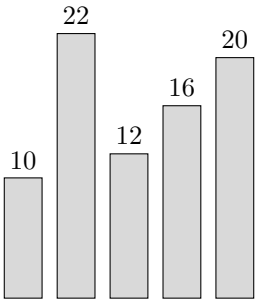
TSP Graph



Distance Matrix

0	10	15	20	25	18	12
10	0	35	25	30	22	28
15	35	0	30	16	24	20
20	25	30	0	18	27	14
25	30	16	18	0	12	22
18	22	24	27	12	0	26
12	28	20	14	22	26	0

Tour Cost

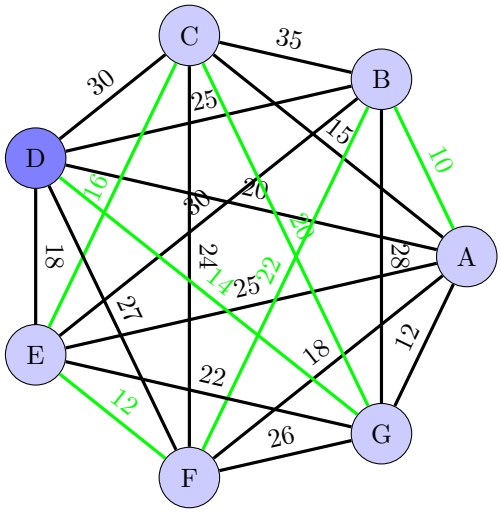


TSP

TSP Log

```
Move to D with distance 14
```

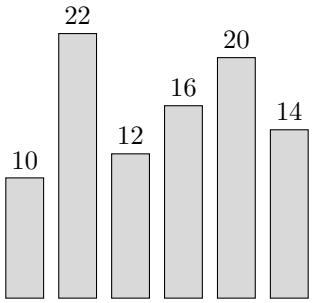
TSP Graph



Distance Matrix

0	10	15	20	25	18	12
10	0	35	25	30	22	28
15	35	0	30	16	24	20
20	25	30	0	18	27	14
25	30	16	18	0	12	22
18	22	24	27	12	0	26
12	28	20	14	22	26	0

Tour Cost

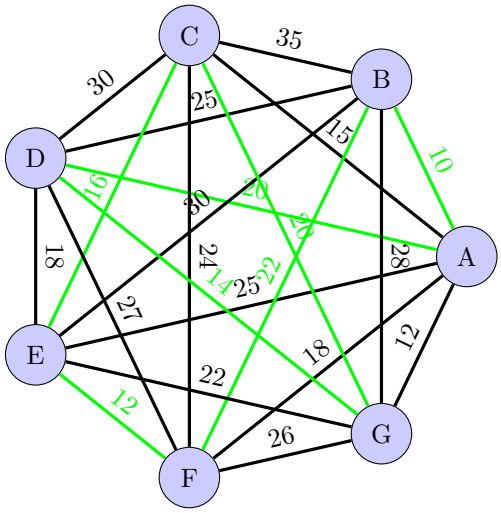


TSP

TSP Log

```
Return to start A with distance 20
```

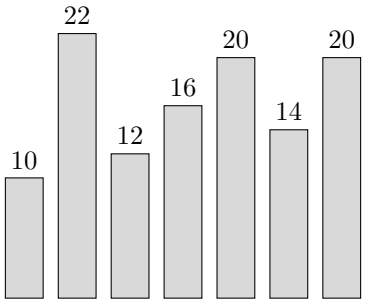
TSP Graph



Distance Matrix

0	10	15	20	25	18	12
10	0	35	25	30	22	28
15	35	0	30	16	24	20
20	25	30	0	18	27	14
25	30	16	18	0	12	22
18	22	24	27	12	0	26
12	28	20	14	22	26	0

Tour Cost

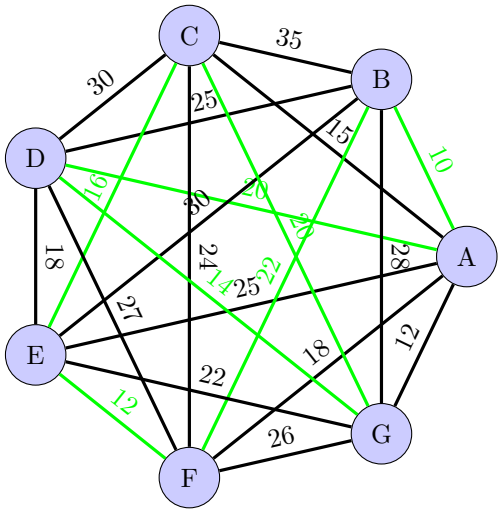


TSP

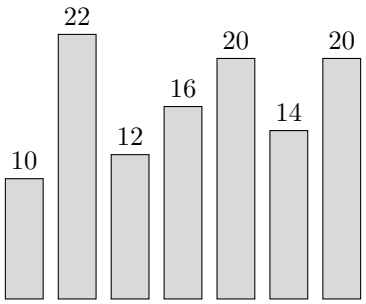
TSP Log

```
Tour completed:  A -> B -> F -> E -> C -> G -> D -> A
```

TSP Graph



Distance Matrix

0	10	15	20	25	18	12
10	0	35	25	30	22	28
15	35	0	30	16	24	20
20	25	30	0	18	27	14
25	30	16	18	0	12	22
18	22	24	27	12	0	26
12	28	20	14	22	26	0

Tour Cost