```
Enter your choice: 1
A:   -> (H, 22 km) -> (G, 25 km) -> (D, 20 km) -> (C, 15 km) -> (B, 5 km)
B:   -> (H, 17 km) -> (F, 15 km) -> (E, 14 km) -> (D, 9 km) -> (C, 10 km) -> (A, 5 km)
C:   -> (H, 13 km) -> (E, 12 km) -> (D, 7 km) -> (A, 15 km) -> (B, 10 km)
D:   -> (G, 18 km) -> (F, 10 km) -> (A, 20 km) -> (B, 9 km) -> (E, 3 km) -> (C, 7 km)
E:   -> (H, 15 km) -> (F, 8 km) -> (B, 14 km) -> (C, 12 km) -> (D, 3 km)
F:   -> (B, 15 km) -> (I, 11 km) -> (D, 10 km) -> (G, 6 km) -> (E, 8 km)
G:   -> (D, 18 km) -> (J, 12 km) -> (A, 25 km) -> (H, 9 km) -> (F, 6 km)
H:   -> (B, 17 km) -> (A, 22 km) -> (J, 8 km) -> (C, 13 km) -> (E, 15 km) -> (I, 7 km) -> (G, 9 km)
I:   -> (J, 5 km) -> (F, 11 km) -> (H, 7 km)
J:   -> (K, 10 km) -> (G, 12 km) -> (H, 8 km) -> (I, 5 km)
K:   -> (L, 14 km) -> (J, 10 km)
L:   -> (M, 6 km) -> (K, 14 km)
M:   -> (N, 8 km) -> (L, 6 km)
N:   -> (O, 10 km) -> (M, 8 km)
O:   -> (P, 12 km) -> (N, 10 km)
P:   -> (Q, 5 km) -> (O, 12 km)
Q:   -> (R, 15 km) -> (P, 5 km)
R:   -> (S, 7 km) -> (Q, 15 km)
S:   -> (T, 9 km) -> (R, 7 km)
T:   -> (U, 6 km) -> (S, 9 km)
U:   -> (V, 10 km) -> (T, 6 km)
V:   -> (W, 8 km) -> (U, 10 km)
W:   -> (X, 6 km) -> (V, 8 km)
X:   -> (Y, 5 km) -> (W, 6 km)
Y:   -> (Z, 7 km) -> (X, 5 km)
Z:   -> (Y, 7 km)
```

```
Enter your choice: 2
-----Traffic Signal Status-----
Intersection A Green Time: 30s
Intersection B Green Time: 40s
Intersection C Green Time: 50s
Intersection D Green Time: 25s
Intersection E Green Time: 35s
Intersection F Green Time: 20s
Intersection G Green Time: 15s
Intersection H Green Time: 30s
Intersection I Green Time: 25s
Intersection J Green Time: 20s
Intersection K Green Time: 35s
Intersection L Green Time: 25s
Intersection M Green Time: 30s
Intersection N Green Time: 20s
Intersection O Green Time: 15s
Intersection P Green Time: 30s
Intersection Q Green Time: 25s
Intersection R Green Time: 40s
Intersection S Green Time: 30s
Intersection T Green Time: 25s
Intersection U Green Time: 20s
Intersection V Green Time: 15s
Intersection W Green Time: 20s
Intersection X Green Time: 25s
Intersection Y Green Time: 30s
Intersection Z Green Time: 35s
```

```
Enter your choice: 4
-----Blocked Roads-----
B to C is Blocked.
A to F is Blocked.
H to I is Blocked.
G to J is Blocked.
A to G is Blocked.
K to L is Blocked.
N to O is Blocked.
Q to R is Blocked.
S to T is Blocked.
W to X is Blocked.
```

```
Enter your choice: 6
Enter road to block(start, end): BF
-----Blocked Roads-----
B to C is Blocked.
A to F is Blocked.
H to I is Blocked.
G to J is Blocked.
A to G is Blocked.
K to L is Blocked.
N to O is Blocked.
Q to R is Blocked.
S to T is Blocked.
W to X is Blocked.
B to F is Blocked.
Enter start and end intersection for emergency vehicle:
A
F
Shortest distance: 24
Emergency Vehicle is being routed....:
Emergency Vehicle Path: ABDF
```

```
Enter your choice: 2
-----Traffic Signal Status-----
Intersection A Green Time: 30s
Intersection B Green Time: 40s
Intersection C Green Time: 50s
Intersection D Green Time: 25s
Intersection E Green Time: 35s
Intersection F Green Time: 20s
Intersection G Green Time: 15s
Intersection H Green Time: 30s
Intersection I Green Time: 25s
Intersection J Green Time: 20s
Intersection K Green Time: 35s
Intersection L Green Time: 25s
Intersection M Green Time: 30s
Intersection N Green Time: 20s
Intersection O Green Time: 15s
Intersection P Green Time: 30s
Intersection Q Green Time: 25s
Intersection R Green Time: 40s
Intersection S Green Time: 30s
Intersection T Green Time: 25s
Intersection U Green Time: 20s
Intersection V Green Time: 15s
Intersection W Green Time: 20s
Intersection X Green Time: 25s
Intersection Y Green Time: 30s
Intersection Z Green Time: 35s
```

```
Enter your choice: 4
-----Blocked Roads-----
B to C is Blocked.
A to F is Blocked.
H to I is Blocked.
G to J is Blocked.
A to G is Blocked.
K to L is Blocked.
N to O is Blocked.
Q to R is Blocked.
S to T is Blocked.
W to X is Blocked.
```

```
Enter your choice: 6
Enter road to block(start, end): BF
-----Blocked Roads-----
B to C is Blocked.
A to F is Blocked.
H to I is Blocked.
G to J is Blocked.
A to G is Blocked.
K to L is Blocked.
N to O is Blocked.
Q to R is Blocked.
S to T is Blocked.
W to X is Blocked.
B to F is Blocked.
Enter start and end intersection for emergency vehicle:
A
F
Shortest distance: 24
Emergency Vehicle is being routed....:
Emergency Vehicle Path: ABDF
```