

## Smart City Disaster Management System Data

### Binary Search Tree Data

Resource: Hospital A, Location: Zone 1, Priority: 8

Resource: Hospital B, Location: Zone 2, Priority: 7

Resource: Hospital C, Location: Zone 3, Priority: 3

Resource: Hospital D, Location: Zone 4, Priority: 8

Resource: Hospital E, Location: Zone 5, Priority: 6

Resource: Hospital F, Location: Zone 6, Priority: 10

Resource: Hospital G, Location: Zone 7, Priority: 4

Resource: Hospital H, Location: Zone 8, Priority: 1

Resource: Hospital I, Location: Zone 9, Priority: 4

Resource: Hospital J, Location: Zone 10, Priority: 8

## Smart City Disaster Management System Data

### AVL Tree Data

Zone: Zone 1, Risk Score: 52

Zone: Zone 2, Risk Score: 22

Zone: Zone 3, Risk Score: 90

Zone: Zone 4, Risk Score: 27

Zone: Zone 5, Risk Score: 17

Zone: Zone 6, Risk Score: 57

Zone: Zone 7, Risk Score: 19

Zone: Zone 8, Risk Score: 12

Zone: Zone 9, Risk Score: 45

Zone: Zone 10, Risk Score: 84

## Smart City Disaster Management System Data

### Fenwick Tree Data

Metric: Evacuated People, Value: 249

Metric: Damage Cost (USD), Value: 260831

Metric: Relief Supplies Distributed, Value: 1201

## Smart City Disaster Management System Data

### KMP Algorithm Data

Pattern: Flood Warning, Occurrences: 6

Pattern: Building Collapse, Occurrences: 1

Pattern: Fire Breakout, Occurrences: 16

### Recommendations

Start: Zone 1, Destination: Shelter A, Route: Zone 1 -> Shelter A, Time: 22 mins

Start: Zone 2, Destination: Shelter B, Route: Zone 2 -> Shelter B, Time: 25 mins

Start: Zone 3, Destination: Shelter C, Route: Zone 3 -> Shelter C, Time: 11 mins

Start: Zone 4, Destination: Shelter D, Route: Zone 4 -> Shelter D, Time: 35 mins

Start: Zone 5, Destination: Shelter E, Route: Zone 5 -> Shelter E, Time: 40 mins

Start: Zone 6, Destination: Shelter F, Route: Zone 6 -> Shelter F, Time: 40 mins

Start: Zone 7, Destination: Shelter G, Route: Zone 7 -> Shelter G, Time: 11 mins

Start: Zone 8, Destination: Shelter H, Route: Zone 8 -> Shelter H, Time: 15 mins

Start: Zone 9, Destination: Shelter I, Route: Zone 9 -> Shelter I, Time: 25 mins

Start: Zone 10, Destination: Shelter J, Route: Zone 10 -> Shelter J, Time: 19 mins