**TEST SET**

1. BACKTRACKING

* L = 6, M = 4

Markers at position : 0, 1, 4, 6

Nodes expanded : 22

* L = 11, M = 5

Markers at position : 0, 1, 4, 9, 11

Nodes expanded : 114

* L = 17, M = 6

Markers at position : 0, 1, 4, 10, 12, 17

Nodes expanded : 788

* L = 25, M = 7

Markers at position : 0, 1, 4, 10, 18, 23, 25

Nodes expanded : 6848

* L = 34, M = 8

Markers at position : 0, 1, 4, 9, 15, 22, 32, 34

Nodes expanded : 51610

**TEST CASES FOR SUBOPTIMAL RULER**

* L = 9, M = 4

Markers at position : 0, 1, 4, 6

Nodes expanded : 67

* L = 13, M = 5

Markers at position : 0, 1, 4, 9, 11

Nodes expanded : 170

* L = 20, M = 5

Markers at position : 0, 1, 4, 9, 11

Nodes expanded : 366

* L = 27, M = 7

Markers at position : 0, 1, 4, 10, 18, 23, 25

Nodes expanded : 17195

1. BACKTRACKING WITH FORWARD CHECKING

* L = 6, M = 4

Markers at position : 0, 1, 4, 6

Nodes expanded : 15

* L = 11, M = 5

Markers at position : 0, 1, 4, 9, 11

Nodes expanded : 76

* L = 17, M = 6

Markers at position : 0, 1, 4, 10, 12, 17

Nodes expanded : 528

* L = 25, M = 7

Markers at position : 0, 1, 4, 10, 18, 23, 25

Nodes expanded : 4560

* L = 34, M = 8

Markers at position : 0, 1, 4, 9, 15, 22, 32, 34

Nodes expanded : 34480

**TEST CASES FOR SUBOPTIMAL RULER**

* L = 9, M = 4

Markers at position : 0, 1, 4, 6

Nodes expanded : 59

* L = 13, M = 5

Markers at position : 0, 1, 4, 9, 11

Nodes expanded : 69

* L = 20, M = 5

Markers at position : 0, 1, 4, 9, 11

Nodes expanded : 205

* L = 27, M = 7

Markers at position : 0, 1, 4, 10, 18, 23, 25

Nodes expanded : 11303