```
       ================
       = Mouse Maze 1 =
       ================

= Print of Maze =
1 --> 2
2 --> 1 3
3 --> 2 8 4
4 --> 3 5 9
5 --> 4 10
6 --> 7 11
7 --> 6 8
8 --> 3 7
9 --> 4 10
10 --> 5 9
11 --> 6 16
12 --> 17
13 --> 18
14 --> 19 15
15 --> 14 20
16 --> 11 17 21
17 --> 16 12 18 22
18 --> 17 13 19 23
19 --> 18 14
20 --> 15 25
21 --> 16 22
22 --> 17 21
23 --> 18 24
24 --> 23
25 --> 20

= Cheese is at vertex 25 =
Mouse 1 uses the DFS method to transverse maze
1-> 2-> 3-> 8-> 7-> 6-> 11-> 16-> 17-> 12-> 18-> 13-> 19-> 14-> 15-> 20-> 25
Number of vertices visitied by mouse: 17

= Cheese is at vertex 25 =
Mouse 2 uses the BFS method to transverse maze
1-> 2-> 3-> 8-> 4-> 7-> 5-> 9-> 6-> 10-> 11-> 16-> 17-> 21-> 12-> 18-> 22-> 13-> 19-> 23-> 14-> 24-> 15-> 20-> 25
Number of vertex visitied by mouse: 24
```

```
        ================
        = Mouse Maze 2 =
        ================

= Print of Maze =
1 --> 2 11
2 --> 1 3
3 --> 2 4
4 --> 3 5 14
5 --> 4 6 15
6 --> 5 7
7 --> 6 8
8 --> 7 9
9 --> 8 10
10 --> 9
11 --> 1 12
12 --> 11 13
13 --> 12 14 23
14 --> 4 13 15
15 --> 5 14 16
16 --> 15 17 26
17 --> 16 27 18
18 --> 17
19 --> 20
20 --> 19
21 --> 22 31
22 --> 21 23 32
23 --> 13 22
24 --> 25 34
25 --> 24 35
26 --> 16 27
27 --> 17 26
28 --> 29
29 --> 28
30 --> 40
31 --> 21 41
32 --> 22 33
33 --> 32 34
34 --> 24 33
35 --> 25 36
36 --> 35 47
37 --> 38 47
38 --> 37
39 --> 40 49
40 --> 30 39
41 --> 31 42 51
42 --> 41 43
43 --> 42 44
44 --> 43
45 --> 46 55
46 --> 45
47 --> 36 37 57
48 --> 49
49 --> 39 48 50 59
50 --> 49 60
51 --> 41 61
52 --> 53 62
53 --> 52 63
54 --> 64
55 --> 45 65
56 --> 57
57 --> 47 56 67
58 --> 59 68
59 --> 49 58
60 --> 50 70
61 --> 51 71
62 --> 52 72
63 --> 53 64
64 --> 54 63 65
65 --> 55 64
66 --> 67 76
67 --> 57 66 77
68 --> 58 69
69 --> 68 79
70 --> 60 80
71 --> 61 81
72 --> 62 73
73 --> 72 74
74 --> 73 75
75 --> 74 76
76 --> 66 75
77 --> 67
78 --> 79 88
79 --> 69 78
80 --> 70
81 --> 71 82 91
82 --> 81 83 92
83 --> 82 84 93
84 --> 83 94
85 --> 86 95
86 --> 85 87
87 --> 86 88
88 --> 78 87
89 --> 90 99
90 --> 89 100
91 --> 81 92
```

```
        92 --> 82 91 93
        93 --> 83 92 94
        94 --> 84 93
        95 --> 85 96
        96 --> 95 97
        97 --> 96 98
        98 --> 97 99
        99 --> 89 98
        100 --> 90

        = Cheese is at vertex 100 =
        Mouse 1 uses the DFS method to transverse maze
        1-> 2-> 3-> 4-> 5-> 6-> 7-> 8-> 9-> 10-> 15-> 14-> 13-> 12-> 11-> 23-> 22-> 21-> 31-> 41-> 42-> 43-> 44-> 51-> 61
-> 71-> 81-> 82-> 83-> 84-> 94-> 93-> 92-> 91-> 32-> 33-> 34-> 24-> 25-> 35-> 36-> 47-> 37-> 38-> 57-> 56-> 67-> 66-> 76-
> 75-> 74-> 73-> 72-> 62-> 52-> 53-> 63-> 64-> 54-> 65-> 55-> 45-> 46-> 77-> 16-> 17-> 27-> 26-> 18-> 19-> 20-> 28-> 29->
 30-> 40-> 39-> 49-> 48-> 50-> 60-> 70-> 80-> 59-> 58-> 68-> 69-> 79-> 78-> 88-> 87-> 86-> 85-> 95-> 96-> 97-> 98-> 99->
89-> 90-> 100
        Number of vertices visitied by mouse: 97

        = Cheese is at vertex 100 =
        Mouse 2 uses the BFS method to transverse maze
        1-> 2-> 11-> 3-> 12-> 4-> 13-> 5-> 14-> 23-> 6-> 15-> 22-> 7-> 16-> 21-> 32-> 8-> 17-> 26-> 31-> 33-> 9-> 27-> 18
-> 41-> 34-> 10-> 42-> 51-> 24-> 43-> 61-> 25-> 44-> 71-> 35-> 81-> 36-> 82-> 91-> 47-> 83-> 92-> 37-> 57-> 84-> 93-> 38-
> 56-> 67-> 94-> 66-> 77-> 76-> 75-> 74-> 73-> 72-> 62-> 52-> 53-> 63-> 64-> 54-> 65-> 55-> 45-> 46-> 19-> 20-> 28-> 29->
 30-> 40-> 39-> 49-> 48-> 50-> 59-> 60-> 58-> 70-> 68-> 80-> 69-> 79-> 78-> 88-> 87-> 86-> 85-> 95-> 96-> 97-> 98-> 99->
89-> 90-> 100
        Number of vertex visitied by mouse: 96
```