

# Maze report

- The Data structure :

1. Stack :

Use this structure in the DFS to push the children of the point on it and to pop the next node which should visited .

2. Queue:

Use this structure in the BFS to enqueue the children points of the node which maked as visited then dequeue the point which I want to visit her children .

3. 2D Array of point :

Use it to store the parent of the node in the position of the children node .

- Sample Run :

```
7 6
.....S
.#####
.....
#####.
.....
.#####
.....E
```

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Main [Java Application] C:\Program Files\Java\jdk1.8.0\_121\bin\javaw.exe (May 22, 2017, 1:08:58 AM)

```
0 5
0 4
0 3
0 2
0 1
0 0
1 0
2 0
2 1
2 2
2 3
2 4
2 5
3 5
4 5
4 4
4 3
4 2
4 1
4 0
5 0
6 0
6 1
6 2
6 3
6 4
6 5
```

5 5

##..S

..#..

.##..

E....

..###

