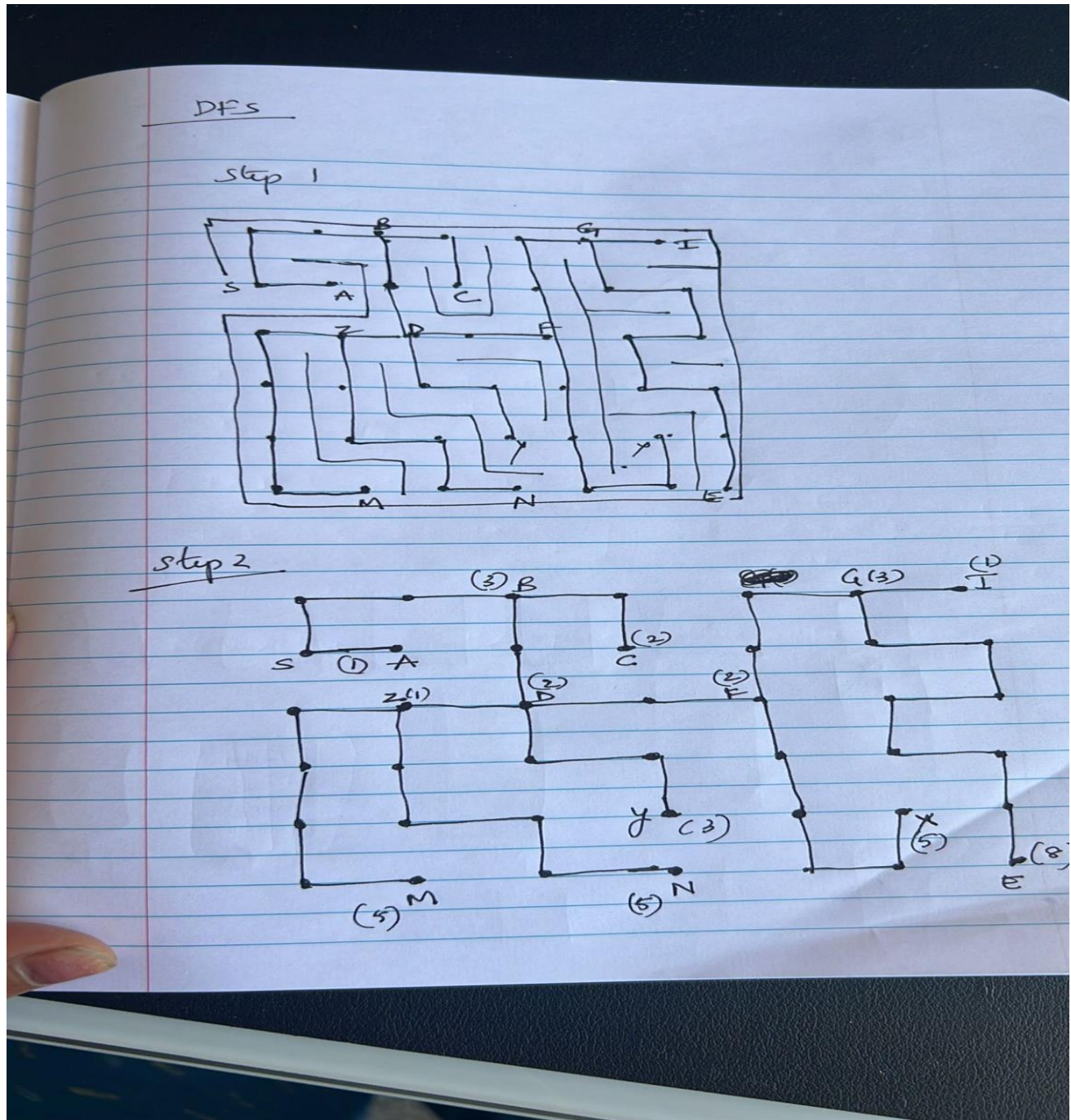
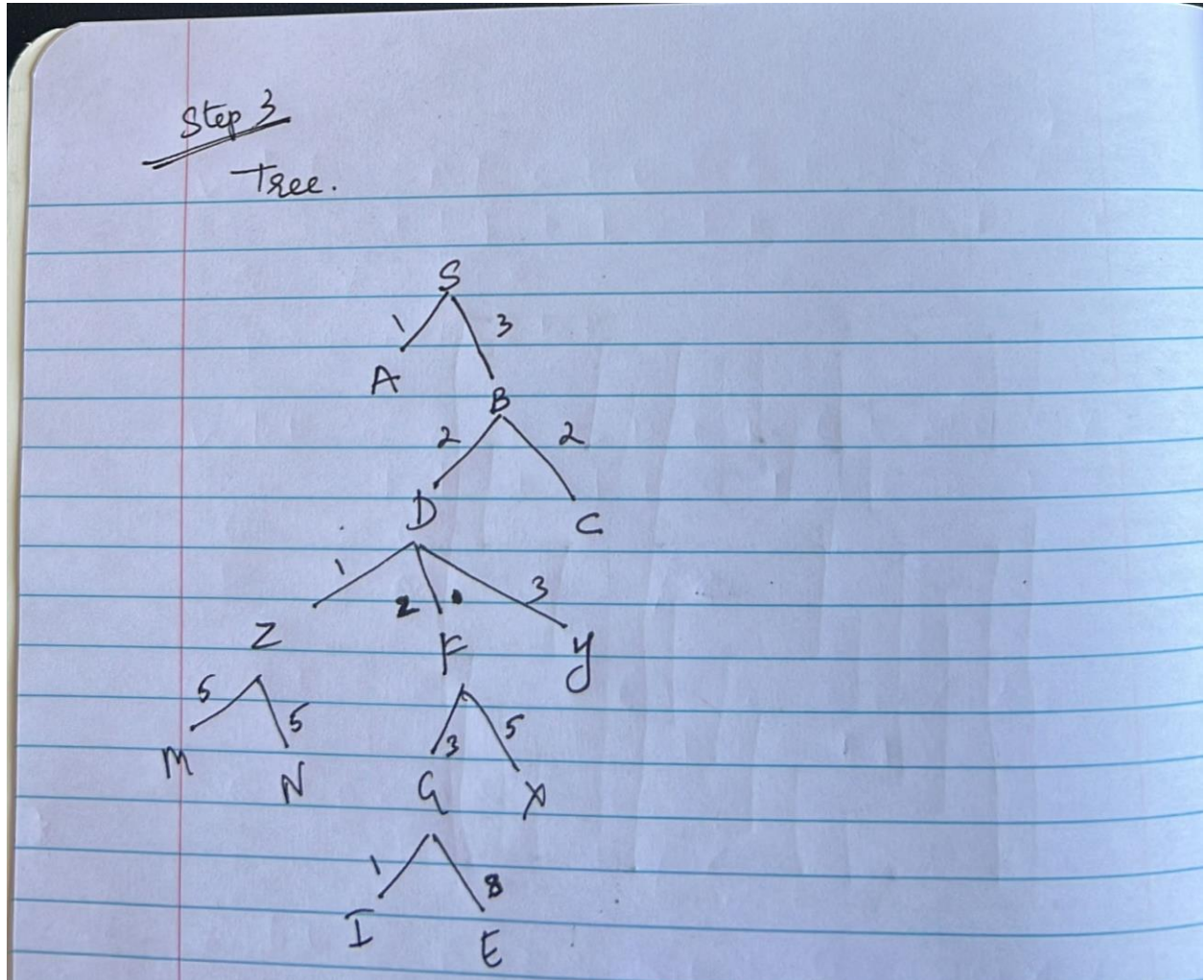


## Week 11: Homework 2: Breadth-First Traversal: The Maze

Q4 => Conduct Breadth First Traversal (BFT) on the following maze



## Week 11: Homework 2: Breadth-First Traversal: The Maze





Step 4 BRS.

Visited S A B C D E F G H I M N X Y Z

Q: S

P:

Visited S A B C D E F G H I M N X Y Z

1 1 1 0 0 0 0 0 0 0 0 0 0 0 0

Q: AB

P: S

Visited S A B C D E F G H I M N X Y Z

1 1 1 0 0 0 0 0 0 0 0 0 0 0

Q: B

P: SA

Visited S A B C D E F G H I M N X Y Z

1 1 1 1 0 0 0 0 0 0 0 0 0 0

Q: CD

P: SAB

Visited S A B C D E F G H I M N X Y Z

1 1 1 1 0 0 0 0 0 0 0 0 0 0

Q: D

P: SAB

Visited S A B C D E F G H I M N X Y Z

1 1 1 1 0 1 0 0 0 0 0 0 1 1

Q: FYZ

P: SABCD



## Week 11: Homework 2: Breadth-First Traversal: The Maze

visited: S A B C D E F G I M N X Y Z  
 1 1 1 1 1 0 1 1 0 0 0 1 1 1  
 Q: Y Z G X  
 P: S A B C D F

visited S A B C D E F G I M N X Y Z  
 1 1 1 1 1 0 1 1 0 0 0 1 1 1  
 Q: Z G X  
 P: S A B C D F Y

visited S A B C D E F G I M N X Y Z  
 1 1 1 1 1 0 1 1 0 0 0 1 1 1  
 Q: G X M N  
 P: S A B C D F Y Z

visited S A B C D E F G I M N X Y Z  
 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
 Q: X M N I E  
 P: S A B C D F Y Z G

visited S A B C D E F G I M N X Y Z  
 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
 Q: M N I E  
 P: S A B C D F Y Z G X

visited S A B C D E F G I M N X Y Z  
 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
 Q: N I E  
 P: S A B C D F Y Z G X M

## Week 11: Homework 2: Breadth-First Traversal: The Maze

visited S A B C D E F G I M N X Y Z  
| | | | | | | | | | | |

Q I E

P S A B C D F Y Z G X M N

visited S A B C D E F G I M N X Y Z  
| | | | | | | | | | | |

Q E

P S A B C D F Y Z G X M N I

visited S A B C D E F G I M N X Y Z  
| | | | | | | | | | | |

Q —

P : S A B C D F Y Z G X M I N E



# **Week 11: Homework 2: Breadth-First Traversal: The Maze**

Step1 : Traced the path in Maze

Step 2 : The actual path I got

Step 3: Maze converted into Tree

Step 4: Breadth First Traversal