Sprint 10: Working with Multi-Dimensional Arrays

Problem Statement: 10.1 - Sum of Boundary Elements

Write a Java program that helps identify the boundary elements of a two-dimensional matrix and calculates the sum of the boundary elements.

Sample Input

```
integerArray [][] = {{1, 2, 3, 4}, {4, 5, 6, 7}, {3, 6, 7, 8},
{5, 8, 9, 0}}
```

Expected Output

```
The boundary elements of the matrix:

 1 2 3 4
 4   7
 3   8
 5 8 9 0
 Sum of boundary elements is 54.
```

Practice Challenge – 10.1 – Boilerplate URL
https://myrepos.stackroute.niit.com/core_java_boilerplates/sprint10_pc10.1

Practice Challenge - 10.2 – **Maze Runner**

A maze is a network of paths and hedges designed as a puzzle through which one has to find a way to the exit. The task for the maze runner is to use the entry point to enter the maze and reach the exit without running into any obstacle.

Write a Java program to build the skeleton of the maze using ascii characters and print it.

Hint : The maze must be built from an array.

Sample Output

```
The maze skeleton
-----------------
‡S‡‡‡‡‡‡‡‡‡‡‡
‡ ‡ ‡ ‡     ‡
‡ ‡   ‡ ‡‡‡ ‡
‡   ‡‡‡     ‡
‡ ‡     ‡‡‡ ‡
‡ ‡ ‡‡‡ ‡   ‡
‡ ‡ ‡   ‡‡‡ ‡
‡ ‡ ‡‡‡ ‡ ‡ ‡
‡         ‡E‡
‡‡‡‡‡‡‡‡‡‡‡‡
S represents the start point and E represents the end point
```

Practice Challenge – 10.2 – Boilerplate URL

https://myrepos.stackroute.niit.com/core_java_boilerplates/sprint10_pc10.2