There is an MxN matrix. Find the shortest path, the path should only have numbers which are an ASCII code for an alphabet and only horizontal and vertical movement is allowed.

**Function Description**

The first line of input describes the number of rows, **M**.

The second line of input describes the number of columns, **N**.

The third line of input will tell the starting element of matrix, [0,**M**-1] [0,**N**-1].

The fourth line of input will tell the starting element of matrix, [0,**M**-1] [0,**N**-1].

The next **N** lines of input will provide elements of each row.

Display "Shortest Path is" and then the answer. If there is no path to the variable then **STUDOUT** should be "Shortest Path doesn't exist".

**Input Format**

3

10

0 0

2 0

67 0 2 2 2 1 0 1 1 1

67 0 2 2 2 1 0 1 1 1

67 0 2 2 2 1 0 1 1 1

**Constraints**

1<=**M,N**<=50

**Output Format**

Shortest Path is 2

**Sample Input**

3

3

2 1

0 2

51 88 108

69 50 106

117 86 108

**Sample Output**

Shortest Path is 3

**Explanation**

The shortest path to (0,2) from (2,1) goes through **(2,2)** then **(1,2)** and then finally **(0,2)** , hence the Shortest Path is 3.