

# CodeVita Sample Questions

A

B

C

D

E

F

G

## Obstacle Game

Given a  $n \times n$  Array matrix (A) with A[0][0] element as the starting point and any one element as the destination.

### + Problem Description

Given a  $n \times n$  Array matrix (A) with A[0][0] element as the starting point and any one element as the destination. Find the destination and print the route map.

Rules:

1. Array Matrix with  $n \times n$  elements such that  $n \geq 2$  and  $n \leq 10$ .
2. Starting point A[0][0] value will be 'A'.
3. Destination value will be 'D'
4. There will be always 1 continuous route which can be straight or diagonal.
5. There are 4 types of hurdles and corresponding values :
  - a. Stone denoted by 'S'
  - b. Wall denoted by 'L'
  - c. Water denoted by 'W'
  - d. Thorn denoted by 'T'
6. Music provides mind peace. Which will be denoted by 'M'. It is not a hurdle.
6. The value of route will be 'R'.

### + Input

First Line contains dimension N of Matrix A.

Next N Lines, each contains N values delimited by space

### + Output

At every Step print the surrounded hurdles in ascending order of values. i.e. for every 'R' print the surrounding hurdles.

If there are no hurdled around step in the route, print 'NO HURDLES' for that step.

On reaching destination print 'DESTINATION'

Music 'M' is not a hurdle. It should not be included in output.

### + Constraints

$2 \leq N \leq 20$

## + Complexity

Simple

## + Time Limit

1

Examples

### Example 1

Input

4

A S L D

T R W R

R M S R

W R R M

Output:

L S S T W

T W

S W

S

S W

L S W

DESTINATION

### Example 2

Input:

5

A S L W M

R S L D T

M R T R M

T L R M S

S L S W T

output:

S S

L L S T T

L L S T W

L S T T

DESTINATION

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