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TCS CodeVita 2015 Round 2 : Romeo and Juliet

Vikash Verma (<https://plus.google.com/107740160110988208853>) 8/27/2015 (2015-08-27T08:11:00-07:00) (<http://www.programminggeek.in/2015/08/tcs-codevita-2015-round-2-romeo-and-juliet.html>)

Problem : Romeo and Juliet

Romeo and Juliet stay in Rectanglevilla. As the name suggests, Rectanglevilla is indeed a rectangle in shape. Romeo's current location is marked by 's'. Juliet's current location is marked by 'd'. In a difficult hour, Romeo has to ensure that he reaches Juliet via the shortest path and hence in shortest time.

There are many in Rectanglevilla who are enemies of Romeo and hence will not allow Romeo to pass through their areas. Romeo must avoid these areas while reaching out for Juliet. These areas are marked by 'w' character. Areas that Romeo can freely access is marked by '.' character.

Today Romeo needs your help to reach Juliet via shortest path. Help him.

The input and output specification sections describe how inputs will be provided on console and how output is expected back on console.

Input Format:

1. First line of input contains grid dimensions delimited by space character
2. Next *rows* number of lines contain *column* number of characters
3. Valid characters are {s, d, w, -}, where
 - a. s represents the location of the Romeo
 - b. d represents the location of the Juliet
 - c. w represents inaccessible region
 - d. - represents accessible region
4. End of input is marked by -1 character

Output Format:

1. Output grid should be of the same dimension as the input grid
2. Output grid should contain path from Romeo's location s to Juliet's location d

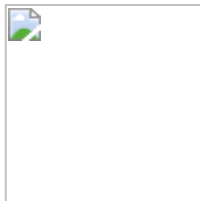
3. The 's' character in the grid must be replaced by character 'a' to denote that Romeo is actively heading towards Juliet.
4. See example section for better understanding

Constraints:

1. It is guaranteed that there will always be exactly one shortest path for Romeo to reach Juliet

Sample Input and Output (<https://www.blogger.com/null>)

S N o	Input	Output
1	<pre> 4 4 w - d - w - w - w - w w s - - - -1 </pre>	<pre> w - d - w a w - w a w w a - - - </pre>
2	<pre> 6 6 s - - - w - - - w - - - w - - - w - - - - w - - - w - - - d -1 </pre>	<pre> a - - - w - a - w - - - a w - - - - w a - - - w - - a - w - - - d </pre>

Explanation for sample input and output 1:**Figure 1.**

Note: - The output format shown above is for understanding purpose such that it highlights the shortest path between Romeo and Juliet. The example in above table depicts output in text format as you will be required to provide.

Note:

Please do not use package and namespace in your code. For object oriented languages your code should be written in o.

Note:

Participants submitting solutions in C language should not use functions from / as these files do not exist in gcc

Note:

For C and C++, return type of main() function should be int.

(<https://www.blogger.com/null>)

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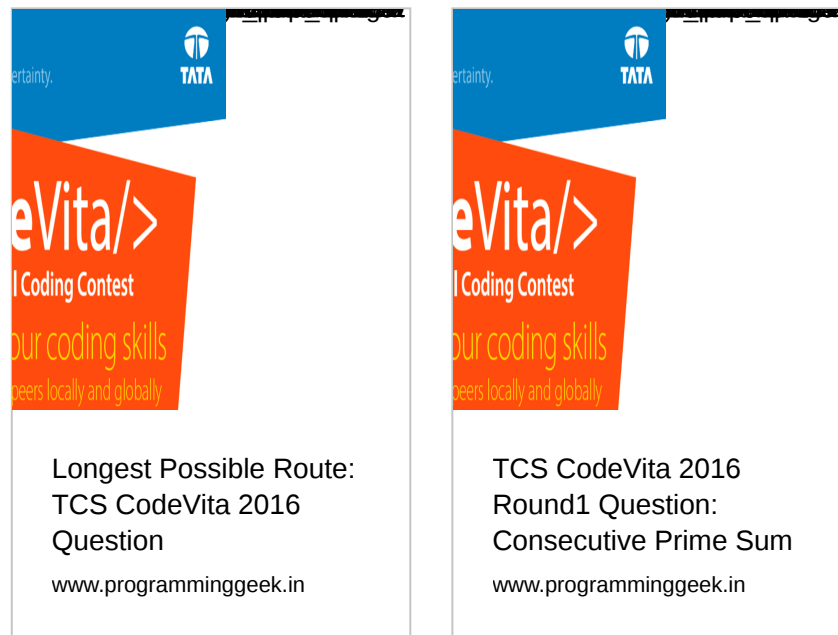


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#include<stdio.h>

#include<math.h>

int romeo,julea,suresh;

float yo yo honey singh;

{

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which algorithm should i use to solve this problem

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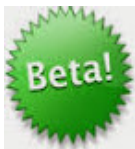
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India. Being an employee of TCS is what many dream. ...

TCS CodeVita 2014 Questions : Round1 (Set2)

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(<http://www.programminggeek.in/2016/07/TCS-CodeVita-Previous-years-questions.html>)

Watch this Space for TCS CodeVita Previous years' question. I will be publishing most of the TCS ...

Online TCS Verbal Ability Test
(<http://www.programminggeek.in/2014/09/tcs-verbal-test-simulator.html>)

Hi, Welcome to the Interactive Online TCS Verbal Ability Test, You can try the simple version here : <http://goo.gl/iMRwMu>



(<http://www.programminggeek.in/2014/10/tcs-placement-pattern-for-2015-batch.html>)

TCS Placement Pattern for 2015 Batch
(<http://www.programminggeek.in/2014/10/tcs-placement-pattern-for-2015-batch.html>)

Well, placement season has started and the tech giant TCS is all set to recruit students from 2015 batch. TCS changes its recruitment proc...

TCS Verbal Ability Test Sample Email : Set7

(<http://www.programminggeek.in/2014/10/tcs-verbal-ability-test-sample-email-set7.html>)

Write an e-mail to client to invite him to the party using the following phrases, with a

minimum of 50 words and a maximum of 100 words. ...

How to Write a Convincing E-mail
(<http://www.programminggeek.in/2013/12/how-to-write-convincing-e-mail.html>)
Follow this simple, six-step system to ensure your e-mails get the job done. E-mails are the most common document in the business w...



(<http://www.programminggeek.in/2016/07/tcs-codevita-2016-round1-question-minimum-sum-the-task-is-to-find-minimum-sum-of.html>)

TCS CodeVita 2016 Round1 Question:
Min Product Array
(<http://www.programminggeek.in/2016/07/tcs-codevita-2016-round1-question-minimum-sum-the-task-is-to-find-minimum-sum-of.html>)

The task is to find the minimum sum of Products of two arrays of the same size, given that k modifications are allowed on the first a...



(<http://www.programminggeek.in/2015/09/tcs-placement-preparation-for-2016-batch.html>)

TCS Placement Preparation for 2016 batch
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The Placement for 2016 batch has gained pace and many people have got the offer. I thought it was the time to jot down some key starte...

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