**Final Destination**

Attempted by: **5656**

/

Accuracy: **82%**

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Maximum Score: **20**

/

48 Votes

Tag(s):

Basic Programming, Easy, Implementation

**PROBLEM**

**EDITORIAL**

**MY SUBMISSIONS**

**ANALYTICS**

Bob and Khatu are stuck in matrix. The command center sent them a string which decodes to the their final destination. Since Bob and Khatu are not good at problem solving help them to figure out their final destination. They are initially at (0, 0). String contains L, R, U, D denoting left, right, up and down. In each command they will traverse 1 unit distance in the respective direction. For example if they are at (2, 0) and the command is they will go to (1, 0).

**Input:**

Input contains a single string.

**Output:**

Print the final destination location of Bob and Khatu.

**Constraints:**

1 ≤ **|S|** ≤ 105

**SAMPLE INPUT**

LLRDDR

**SAMPLE OUTPUT**

0 -2

**Explanation**

Initail Postion : 0, 0  
1.) 'L' -> cover one unit of distance in left direction. New position (-1,0)  
2.) 'L' -> new position (-2,0)  
3.) 'R' -> new position (-1,0)  
4.) 'D' -> new position (-1,-1)  
5.) 'D' -> new position (-1,-2)  
6.) 'R' -> new position (0,-2)

**Time Limit:**5.0 sec(s) for each input file.

**Memory Limit:**256 MB

**Source Limit:**1024 KB

**Marking Scheme:**Marks are awarded when all the testcases pass.

**Allowed Languages:**C, C++, C++14, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Swift-4.1, Visual Basic

#include <iostream>

using namespace std;

int main()

{

long long int i;

int val1=0;

int val2=0;

string s;

getline(cin,s,'\n');

for(i=0;i<s.size();i++)

{

if(s[i]=='L')

val1=val1-1;

else if(s[i]=='R')

val1=val1+1;

else if(s[i]=='U')

val2=val2+1;

else if(s[i]=='D')

val2=val2-1;

}

cout<<val1<<" "<<val2;

return 0;

}