



Signup and get free access to 100+ Tutorials and Practice Problems

Start Now

[All Tracks](#) > [Algorithms](#) > [Dynamic Programming](#) > [Introduction to Dynamic Programming 1](#) > Problem

5

LIVE EVENTS

## Intelligent Girl

Attempted by: **3554** / Accuracy: **83%** / Maximum Score: **20** / ★★★★★ 868 Votes

Tag(s): Ad-Hoc, Easy, Implementation, Very Easy

PROBLEM

EDITORIAL

ANALYTICS

Soumika has a string  $S$  and its starting index is  $1$ . The string  $S$  consists of characters from  $1-9$ . As she is very intelligent, she wants to test his brother Vinay Tendulkar. She asked her brother Vinay Tendulkar to count the number of even numbered characters ( i.e  $2,4,6,8$  ) for every index  $i$  (  $1 \leq i \leq |S|$  ). For an index  $i$ , the result should be calculated from  $i$  to the end of the string. As Vinay doesn't know about programming, he wants you to help him find the solution.

### Input:

First line contains a string  $S$ .

### Output:

Print  $|S|$  space-separated integers,the result of every index.

### Constraints:

$1 \leq |S| \leq 10^4$

SAMPLE INPUT



574674546476

SAMPLE OUTPUT



7 7 7 6 5 5 4 4 3 2 1 1

## Explanation

Given string `$$$` is `$$$574674546476$$$`.

**for index `$$$1$$$`**

Number of even numbers from `$$$5$$$` to end of the string is `$$$7$$$` so the result of **index `$$$1$$$`** is `$$$7$$$`.

**for index `$$$2$$$`**

Number of even numbers from `$$$7$$$` to end of the string is `$$$7$$$` so the result of **index `$$$2$$$`** is `$$$7$$$`.

**for index `$$$3$$$`**

Number of even numbers from `$$$4$$$` to end of the string is `$$$7$$$` so the result of **index `$$$3$$$`** is `$$$7$$$`.

**for index `$$$3$$$`**

Number of even numbers from 6 to end of the string is `$$$6$$$` so the result of **index `$$$4$$$`** is `$$$6$$$.....`

.  
. .

**Time Limit:** 1.0 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++, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Scala 2.11.8, Swift, Visual Basic

## CODE EDITOR

Initializing Code Editor...

Your Rating:

## PROGRAMMERS WHO SOLVED THIS PROBLEM ALSO SOLVED

## Leaf And Limelight Attack

Attempted By: **1359** / Accuracy: **62**

## Choosing The Judges

Attempted By: **1165** / Accuracy: **49**

## Rhezo And Prime Problems

Attempted By: **1832** / Accuracy: **71**

### BEST SUBMISSIONS

LANGUAGE: **C**

 TIME (sec)

**0.8039**

 MEMORY (KiB)

**64**

by [Amit Kumar Yadav](#)

[VIEW BEST SUBMISSION](#)[VIEW ALL SUBMISSION](#)

## CONTRIBUTOR



AUTHOR

[Vinaykumar Bokam](#)



TESTER

[Pulkit Mendiratta](#)

## THIS PROBLEM WAS ASKED IN

ThoughtWorks

CHALLENGE NAME

ThoughtWorks Coding Challenge



## SOCIAL SHARE



## ABOUT US

[Blog](#)

[Engineering Blog](#)

[Updates & Releases](#)

## HACKEREARTH

[API](#)

[Chrome Extension](#)

[CodeTable](#)

## DEVELOPERS

[AMA](#)

[Code Monk](#)

[Judge Environment](#)

## EMPLOYERS

[Developer Sourcing](#)

[Lateral Hiring](#)

[Campus Hiring](#)

## REACH US





Ground Floor, Salarpuria Business Center,  
4th B Cross Road, 5th A Block,  
Koramangala Industrial Layout,  
Bangalore, Karnataka 560095, India.

Team  
Careers  
In the Press

HackerEarth  
Academy  
Developer Profile  
Resume  
Get Badges  
Campus  
Ambassadors  
Get Me Hired  
Privacy  
Terms of Service

Solution Guide  
Problem Setter  
Guide  
Practice Problems  
HackerEarth  
Challenges  
College Challenges  
College Ranking  
Organise Hackathon  
Hackathon  
Handbook  
Competitive  
Programming  
Open Source

Hackathons  
FAQs  
Customers

✉ [contact@hackerearth.com](mailto:contact@hackerearth.com)  
☎ +91-80-4155-4695  
☎ +1-650-461-4192  
  
   



© 2017 HackerEarth