# nackerearth

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

Start Now

All Tracks > Algorithms > Dynamic Programming > Introduction to Dynamic Programming 1 > Problem

# 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 \$\$\$\$\$ and its starting index is \$\$1\$\$. The string \$\$\$\$\$ 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 \le i \le | 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:

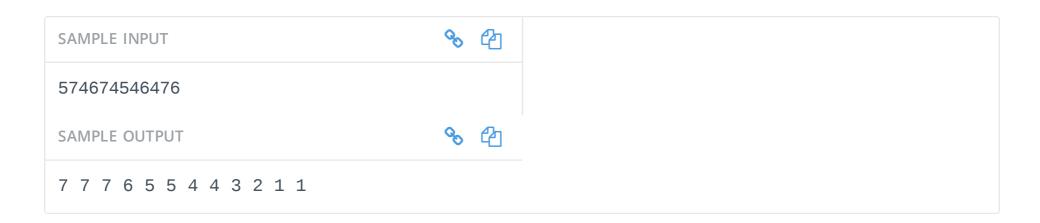
First line contains a string \$\$\$\$.

# **Output:**

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

#### **Constraints:**

 $$$1$$ \le |$$5$$| \le $$10$$$$4$$$ 



# **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,

# **CODE EDITOR**

Initializing Code Editor...

Your Rating:

# PROGRAMMERS WHO SOLVED THIS PROBLEM ALSO SOLVED

Scala 2.11.8, Swift, Visual Basic

# 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



0.8039



64

by Amit Kumar Yadav



VIEW ALL SUBMISSION

#### **CONTRIBUTOR**



**AUTHOR** 

Vinaykumar Bokam



**TESTER** 

Pulkit Mendiratta

#### THIS PROBLEM WAS ASKED IN



CHALLENGE NAME

ThoughtWorks Coding Challenge



# **SOCIAL SHARE**









#### **ABOUT US** HACKEREARTH DEVELOPERS **EMPLOYERS REACH US** Developer Sourcing Ground Floor, Salarpuria Business Center, API AMA Blog 4th B Cross Road, 5th A Block, Lateral Hiring Engineering Blog Chrome Extension Code Monk Koramangala Industrial Layout, Updates & Releases CodeTable Judge Environment Campus Hiring Bangalore, Karnataka 560095, India.

Solution Guide Hackathons Team HackerEarth contact@hackerearth.com Academy Problem Setter Careers FAQs +91-80-4155-4695 Developer Profile Guide In the Press Customers **\( +1-650-461-4192 Practice Problems** Resume in G+ Get Badges HackerEarth Challenges Campus Ambassadors College Challenges Get Me Hired College Ranking Privacy Organise Hackathon Terms of Service Hackathon Handbook Competitive Programming Open Source



© 2017 HackerEarth