3/30/2018 HackerRank



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Day 6: Let's Review ☆



Problem

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Objective

Today we're expanding our knowledge of Strings and combining it with what we've already learned about loops. Check out the Tutorial tab for learning materials and an instructional video!

Task

Given a string, S, of length N that is indexed from 0 to N-1, print its *even-indexed* and *odd-indexed* characters as 2 space-separated strings on a single line (see the *Sample* below for more detail).

Note: 0 is considered to be an *even* index.

Input Format

The first line contains an integer, T (the number of test cases). Each line i of the t subsequent lines contain a String, t.

Constraints

- $1 \le T \le 10$
- $2 \le \text{length of } S \le 10000$

Output Format

For each String S_j (where $0 \le j \le T-1$), print S_j 's *even-indexed* characters, followed by a space, followed by S_j 's *odd-indexed* characters.

Sample Input

2

Hacker Rank

Sample Output

Hce akr Rn ak

Explanation

Test Case 0: S = "Hacker"

$$S[0] = "H"$$

$$S[1] = a$$

$$S[2] = c$$

$$S[3] = k$$

$$S[4] = e$$

$$S[5] = "r"$$

The even indices are 0, 2, and 4, and the odd indices are 1, 3, and 5. We then print a single line of 2 space-separated strings; the first

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string contains the ordered characters from S's *even* indices (**Hce**), and the second string contains the ordered characters from S's *odd* indices (**akr**).

```
Test Case 1: S = \text{``Rank''}

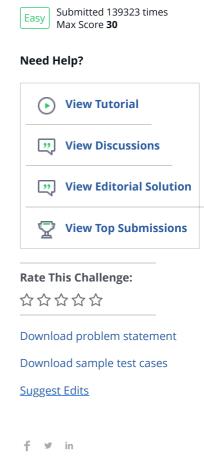
S[0] = \text{``R''}

S[1] = \text{``a''}

S[2] = \text{``n''}

S[3] = \text{``k''}
```

The *even* indices are $\bf 0$ and $\bf 2$, and the *odd* indices are $\bf 1$ and $\bf 3$. We then print *a single line* of $\bf 2$ space-separated strings; the first string contains the ordered characters from $\bf S'$ s *even* indices ($\bf Rn$), and the second string contains the ordered characters from $\bf S'$ s *odd* indices ($\bf ak$).



```
Current Buffer (saved locally, editable) & • •
                                                                           Java 8
                                                                                                          Ö
1 ▼ import java.io.*;
2
   import java.util.*;
4 v public class Solution {
5
6 ▼
        public static void main(String[] args) {
7 ▼
            /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should
    be named Solution. */
8
            Scanner s = new Scanner(System.in);
9
            int space = s.nextInt();
10
            s.nextLine();
11
12 🔻
            for (int k = 0; k \le space; k++) {
13
                String str = s.nextLine();
14
                char[] carr = str.toCharArray();
                StringBuilder strE = new StringBuilder();
15
16
                StringBuilder str0 = new StringBuilder();
17
                for (int i = 0; i < carr.length; i++) {</pre>
                     if (i % 2 == 0) {
18 🔻
19 ▼
                         strE.append(carr[i]);
20 ▼
                     } else {
21 ▼
                         str0.append(carr[i]);
```