



Day 6: Let's Review ☆

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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, S .

Constraints

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

Output Format

For each String S_j (where $0 \leq j \leq T - 1$), 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: $S = \text{"Hacker"}$

$S[0] = \text{"H"}$

$S[1] = \text{"a"}$

$S[2] = \text{"c"}$

$S[3] = \text{"k"}$

$S[4] = \text{"e"}$

$S[5] = \text{"r"}$

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

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

Easy

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Current Buffer (saved locally, editable)

Java 8



```
1 import java.io.*;
2 import java.util.*;
3
4 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
8            be named Solution. */
9         Scanner s = new Scanner(System.in);
10        int space = s.nextInt();
11        s.nextLine();
12
13        for (int k = 0; k <= space; k++) {
14            String str = s.nextLine();
15            char[] carr = str.toCharArray();
16            StringBuilder strE = new StringBuilder();
17            StringBuilder strO = new StringBuilder();
18            for (int i = 0; i < carr.length; i++) {
19                if (i % 2 == 0) {
20                    strE.append(carr[i]);
21                } else {
22                    strO.append(carr[i]);
23                }
24            }
25            System.out.print(strE + " " + strO);
26        }
27    }
28 }
```