

String-o-Permute ★

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Kazama gave Shaun a string of even length, and asked him to swap the characters at the even positions with the next character. Indexing starts at **0**.

Formally, given a string `str` of length L where L is even, Shaun has to swap the characters at position i and $i + 1$, where $i \in \{0, 2, \dots, L - 2\}$.

For example, if `str = "abcdpqrs"`, $L = 8$. We have to swap the characters at positions:

$\{(0, 1), (2, 3), (4, 5), (6, 7)\}$

So, answer will be "badcqpsr".

Input Format

The first line contains an integer, T , the number of test cases.

T lines follow, each containing some string `str`.

Output Format

For each test case, print the new string as explained in the problem statement.

Constraints

$$1 \leq T \leq 10$$

$$1 < L \leq 10^5$$

L is even

`str` consists of lowercase English characters, $\{a - z\}$.

Sample Input

```
2
abcdpqrs
az
```

Sample Output

```
badcqpsr
za
```

Explanation

Test case #00: This is the same example as mentioned in the problem statement.

Test case #01: Here L is **2**, so we have to swap the characters at position **(0, 1)** only.

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Language

Haskell



```
1 import Control.Monad
2
3 main = do read <$> getLine
```



```
1  n <- readLn <|> getLine
2
3  forM [1..n] $ const $ do
4
5      str <- getLine
6
7      let (a,b,_) = foldr (\e (x,y,z) -> if z then (e:x, y, not z) else (x, e:y, not z)
8      ) ([],[], True) str
9
10     putStrLn $ concatMap (\(x,y) -> [x,y]) $ zip a b
```

Line: 9 Col: 1

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