Problem B. ATCG

Time limit 1000 ms
Memory limit 256MB

Problem Description

The problem discusses the structure of DNA, which is a double helix composed of two strands. The bases on these strands can be represented by the letters ATCG:

- 3' ATCCGA 5'
- 5' TAGGCT 3'

The bases of the two strands pair according to specific rules: A pairs with T, and C pairs with G. Given one strand's sequence from 3' to 5', the task is to output the sequence of the complementary strand also from 3' to 5'.

The task involves handling multiple test cases.

Input format

The first line contains one integer T ($1 \leq T \leq 2000$) – the number of test cases.

Each test case consists of two lines.

The first line contains a positive integer N ($1 \leq N \leq 100$) – the length of the following string.

The second line contains a string S, consisting of only uppercase letters in $\{A, T, C, G\}$.

Output format

For each test case, output the string that the problem required.

Subtask score

Subtask	Score	Additional Constraints
1	100	No constraints

Sample

Sample Input 1

```
3
4
ATCG
4
ACGT
6
ATGGCT
```

Sample Output 1

```
CGAT
ACGT
AGCCAT
```

Notes