1C Find the Reverse Complement of a String

Reverse Complement Problem

Find the reverse complement of a DNA string.

Input: A DNA string *Pattern*.

Output: The reverse complement of the string *Pattern*.



Formatting

Input: A DNA string *Pattern*.

Output: A string representing *Pattern*, the reverse complement of *Pattern*.

Constraints

- The length of *Pattern* will be between 1 and 10^4 .
- *Pattern* will be a DNA string.

Test Cases

Case 1

Description: The sample dataset is not actually run on your code.

Input:

AAAACCCGGT

Output:

ACCGGGTTTT

Case 2

Description: This test dataset performs two checks. First, it makes sure that you didn't forget to complement *Pattern* (i.e. you reversed *Pattern*, but not complemented), which would have an output of CACACA. Then, it makes sure that you didn't forget to reverse *Pattern* (i.e. you complemented *Pattern*, but not reversed), which would have an output of TGTGTG.

Input:

ACACAC

Output:

GTGTGT

Case 3

Description: A larger dataset of the same size as that provided by the randomized autograder. Check input/output folders for this dataset.