## Margarita Salas 3 points

## Introduction

Margaritas Salas (1938-2019) was a Spanish renowned scientist in the fields of biochemistry and molecular genetics.

Disciple of Severo Ochoa, with whom she worked in the United States, she invented a faster, simpler and more reliable way to replicate trace amounts of DNA into quantities large enough for full genomic testing. Her invention based on Phi-29 DNA polymerase is now used widely in oncology, forensics and archaeology.



As you may know, the DNA is formed by the sequence of four bases: adenine (A), guanine (G), cytosine (C), and thymine (T). Given a DNA sequence, write down a program to replicate it as many times as requested.

## Input

The input will be a pair of lines.

The first line contains the number of copies, bigger than zero, to replicate the DNA sequence.

The second line represents the DNA sequence that must be replicated.

## **Output**

The output is the DNA sequence replicated as many times as requested.



Example 1

Input

1

ACGT

Output

ACGT

Example 2

Input

3

GATTACA

Output

GATTACAGATTACA