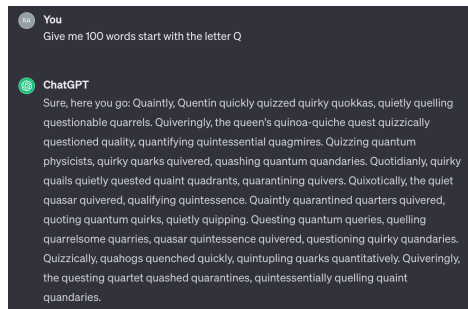# CJ4 | Questionable Question

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Description

Quietly, The CJ Pirates ventures the dark and cold cavern. They quivered when a quaint light glimmers from afar. Captain CJ bravely leads the crew approaching the light as if it is a quest from the gods. Into a questionable room made of metal they went in, shocked are written accross their faces. They had found a questionable devil fruit inside a cage made of unbreakable glass as well as a book with "VP" written on the cover. Unbeknownts to them, quarrel will come in the future.

Beside the cage is a machine which seems to control the cage. The machine gives a series of questionable questions and expects you to give the qualified answers. Looking for clues you start to read the book and quickly realized a pattern of encryption and decryption. To obtain the devil fruit and as a loyal crew who ate the Code Code Fruit, you must create a program that answers the questionable question.

Input Format

The first line contains the value of **c**, a number indicating whether to perform encryption or decryption. The rest is denoted as m, represents the message to be processed, which can undergo either encryption or decryption. Figure out by yourself how to encrypt and decrypt a message from the example testcases below.

Output Format

- If **c** is 1, encrypt the message and print it
- If **c** is -1, decrypt the message and print it
- Encrypted or decrypted message must only be printed in 1 single line

Constraints

- The value of $c \in \{-1, 1\}$

- If **c** is 1, length of message **m** $\in (0, 250)$

- If **c** is -1, length of message **m** $\in (0, 2000)$

- Length of encrypted **m** = 8 x length of decrypted **m**

- Characters in message **m** are characters in the standard ASCII table

- If **c** is -1, it is guaranteed that the length of message **m** is divisible by 8

Example 1

Input
1 CJ4
Output
010000110100101000110100

Example 2

Input
-1 010000110100101000110100
Output
CJ4