**Text Encryption**

There a various methods on encryption. One method is a *transposition cipher*. This cipher does not change the letters of the message, but merely shuffles the order of the letters.

For this problem, we will implement a simple transposition cipher that always takes the **n**-th letter. To elaborate, the first letter of the ciphertext is taken first, then the next **n** – 1 letters are (repeatedly) skipped and the next letter is taken until we reach the end of the cipher text. After that, we repat the procedure starting the second letter of the ciphertext, until all the letters are used.

Your task is to implement the encryption algorithm for this cipher. To make it a bit stronger, you should convert all letters to uppercase and leave out all spaces between words.

**Input:** The first line on input denotes **n**, the n-th letter that will be used for the algorithm and **W**, the number of words in the second line. In the second line, there are **W** space-separated lowercase words. There will be at most **----** characters in the second line.

**Output:** The encrypted message.

**Example Input:**

2 4

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**Example Output:**

gmcmcionpgecnopnrtoegsrta

**Explanation:**

**g**m**c**m**c**ionpgecnopnrtoegsrta

Each character of the message is separated by two characters. You loop around until all letters have been exhausted.

gmcmci**o**n**p**g**e**c**n**opnrtoegsrta

g**m**c**m**c**i**o**n**p**g**ecno**p**n**r**t**o**e**g**s**r**t**a**

gmcmcionpge**c**n**o**p**n**r**t**o**e**g**s**r**t**a