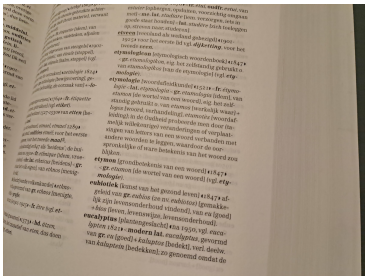
Problem E
Evolving Etymology
Time limit: 1 second

Eelco has recently started to gain interest in the field that studies the origin of words: etymology. He especially likes how words can evolve in many different ways: pronunciation changes over time, words are borrowed from different languages, and the meaning of words can change based on culture. Eelco is eager to attend the Networking With Etymologists: Revolutionary Conference for the first time ever. To make a good first impression, he is going to present a completely new method to make new words from existing words.



Van Dale Groot etymologisch woordenboek.
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To make a new word from an existing word s, Eelco proposes to take every second letter of $s+s$, starting with the first letter. For example, applying this method to the word "`etymology`" would result in "`eyooytmlg`". Of course, to design even more words, this process can be repeated many times. Eelco would like to prepare a list of new words to present at the conference, so he writes a program that applies his method some predetermined number of times.

Input

The input consists of:

- One line with two integers n and k ($1 \leq n \leq 10^5$, $1 \leq k \leq 10^{18}$), the length of the original word and the number of times to apply the method.
- One line with a string s of length n, only consisting of English lowercase letters (`a`–`z`), the original word.

Output

Output the resulting word after applying the method to the original word k times.

Sample Input 1	Sample Output 1
`9 1` `etymology`	`eyooytmlg`

Sample Input 2	Sample Output 2
`4 1` `word`	`wrwr`

Sample Input 3	Sample Output 3
`5 1000000000000000000` `delft`	`delft`

Sample Input 4	Sample Output 4
5 5 eceol	eelco