## Problem D. Trie Easy

Input file: standard input
Output file: standard output

Time limit: 1 second Memory limit: 256 megabytes

Given an array A of N integers and an integer K, find out how many contiguous subarrays of the array have XOR less than K.

## Input

The first line contains 2 integers N ( $1 \le N \le 10^5$ ) and K ( $1 \le K \le 10^5$ ), separated by a space. The next line contains N space separated integers, the array A ( $0 \le A_i \le 10^5$ ).

## Output

Print the number of subarrays with XOR less than K

## **Examples**

standard input	standard output
5 3	5
1 5 2 3 2	
10 10	22
8 1 5 11 2 4 9 16 0 5	