

5. SREDNJI

Consider a sequence A of integers, containing N integers between 1 and N . Each integer appears exactly once in the sequence.

A subsequence of A is a sequence obtained by removing some (possibly none) numbers from the beginning of A , and then from the end of A .

Calculate how many different subsequences of A of **odd** length have their median equal to B . The median of a sequence is the element in the middle of the sequence after it is sorted. For example, the median of the sequence $\{5, 1, 3\}$ is 3.

Input

The first line contains two integers, N ($1 \leq N \leq 100000$) and B ($1 \leq B \leq N$).

The second line contains N integers separated by spaces, the elements of sequence A .

Output

Output the number of subsequences of A whose median is B .

Sample test data

input

5 4
1 2 3 4 5

output

2

input

6 3
1 2 4 5 6 3

output

1

input

7 4
5 7 2 4 3 1 6

output

4

In the fourth example, the four subsequences of A with median 4 are $\{4\}$, $\{7, 2, 4\}$, $\{5, 7, 2, 4, 3\}$ and $\{5, 7, 2, 4, 3, 1, 6\}$.