11:48 27/02/2024 HUSTack











Problem: Week 1 - k-Subsequence even

Description

Given a sequence of integers a1, a2, . . ., an. A k-subsequence is define to be a sequence of k consecutive elements: ai, ai+1, . . ., ai+k-1. The weight of a k-subsequence is the sum of its elements.

Given positive integers k and m. Compute the number Q of k-subsequences such that the weight is even.

Input

- Line 1: contains 2 positive integers n, k (1 <= n <= 100000, 1 <= k <= n/2)
- Line 2: contains a1, a2, . . ., an. (1 <= ai <= 10000)

Output

Write the value Q

Example

Input

6 3

245112

Output

2

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Sample TestCase

C 17

1 Write your Source code here

Source code

int main()

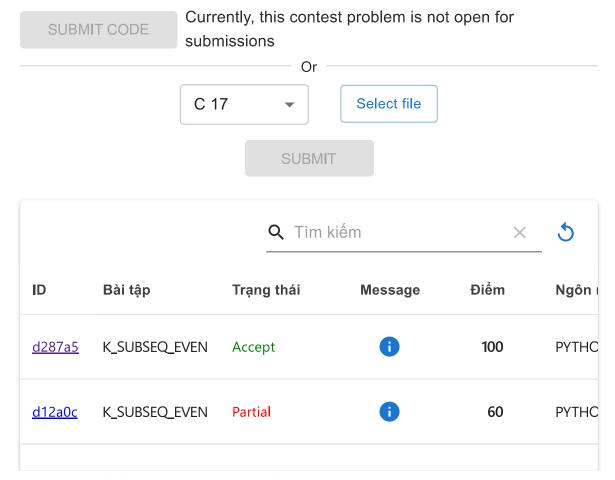
#include <stdio.h>

C 17

17

```
https://programming.daotao.ai/programming-contest/student-view-contest-problem-detail/PROJECT1_20231_WEEK1/K_SUBSEQ_EVEN
```

11:48 27/02/2024 HUSTack



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