Bekub and Rice

Problem Submissions Discussions

Time Limit: 2s, Memory Limit: 512MB

Problem Statement

Bekub has recently got a job at a restaurant. His main duty is to buy rice for the restaurant. Tomorrow, the restaurant will need exactly **W kilograms** of rice.

Bekub enters a shop where there are **N different types of rice bags** arranged in a single row. For each type, the shop has an unlimited supply of bags, so Bekub can take as many bags of a chosen type as he wants. For transportation convenience, Bekub decides to choose a **continuous segment** of bag types from the row. After choosing this continuous segment, **he must take the same number of bags from each selected type.** The total weight of the rice taken must be exactly W kilograms.

Your task is to determine whether Bekub can choose such a continuous segment and a positive integer number of bags so that the total weight equals exactly W.

Input Format

The first line contains two integers N and W.

The second line contains N integersw_1, w_2, w_3, ..., w_n,where w_i represents the weight of the i-th type of rice bag.

Constraints

$1 \le N, W \le 200000$

$1 \le w_i \le 200000$ for all 1 <= i <= N

Output Format

Print "YES" if it is possible to choose such a continuous segment.

Otherwise, print "NO"

Sample Input 0

```
5 10
6 2 3 4 3
```

Sample Output 0

```
YES
```

Explanation 0

Bekub can choose the continuous segment [2, 3] (weights 2 and 3). If he takes 2 bags of each type, the total weight becomes (2 × 2) + (3 × 2) = 10.

He can also choose the segment [3, 4, 3]. Taking 1 bag of each type gives 3 + 4 + 3 = 10.

So, the answer is YES.

Sample Input 1

```
3 10
3 4 7
```

Sample Output 1

```
NO
```

Contest ends in 56 minutes 28 seconds

Submissions: 198
Max Score: 1

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C++

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}

```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code