Description Hints Submissions Discussions Notes

Four Values

[redacted]	1 sec	256000KB	100
Difficulty	Time Limit	Memory	Score

80/80 XP 30/30

Description

You are given an array of n integers, and your task is to find four values (at distinct positions) whose sum is x.

Input Format

The first input line has two integers n and x: the array size and the target sum.

The second line has n integers $a_1, a_2, \ldots, a_n$: the array values.

Output Format

Print 'YES' if such four values exist, otherwise 'NO'.

Constraints

$1 \le n \le 1000$

$1 \le x, a_i \le 10^9$

C++14 00:00:00 12 px

```
#include<bits/stdc++.h>
using namespace std;
#define endl "\n"
using ll=long long int;
void solve(ll *arr,ll x,ll n){
    map<ll,ll>mp;
    for(ll b=n-2;b>=0;b--){
        for(ll a=0;a<=b-1;a++){
            if(mp[x-arr[b]-arr[a]]
                cout<<"YES";
                return;
            }
        }
        ll c=b;
        for(ll d=c+1;d<n;d++){
            mp[arr[d]+arr[c]]=1;
        }
```

Sample Tests Manual Tests

Test Case 1

Input

```
8 15
3 2 5 8 1 3 2 3
```

Output

Click on Run On Sample to view the

Console Run on Sample