- **MEDIUM**
- **Max Score: 40 Points**

Pair Sum in Sorted Array

Given a sorted array A having N integer elements, find if there exists any pair of elements such that (A[i], A[j]) have the sum equal to X (i < j)

Input Format

The first line of each test case contains N size of array and X. Second line contains elements of array separated by space.

Output Format

For each test case you need to print "Yes" if pair exists otherwise "No".

Example 1

Input

```
5 4
1 2 3 4 5
```

Output

```
Yes
```

Example 2

Input

```
5 6
2 3 5 7 8
```

Output

`No`

Constraints

```
1 <= N <= 100000
1 <= X <= 1000
1 <= A[i] <= 1000000
```

My code

```java
// n java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
    public static void main (String[] args) throws java.lang.Exception
    {
        //your code here
    Scanner s=new Scanner(System.in);
    int n=s.nextInt();
     int m=s.nextInt();
```

```java
        int arr[]=new int[n];
        for(int i=0;i<n;i++)
            arr[i]=s.nextInt();
        HashSet<Integer> hm=new HashSet<>();
        int c=0;
            for(int i=0;i<n;i++)
            {
                if(hm.contains(arr[i]))
                {System.out.print("Yes");c=1;break;}
                else hm.add(m-arr[i]);
            }
        if(c==0) System.out.print("No");
        }
}
```