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MEDIUM

Max Score: 40 Points

Hashing for Pair

You are given an array arr (distinct integers) of size n, and you are also given a sum. You need to find if two numbers in arr exists that have sum equal to the given sum.

Input Format

The first line contains two integers n and sum denoting size of array and target value.

Next line contains ${\tt n}$ separated integers denoting elements of array.

Output Format

Print "1"(without quotes) if any pair found, othwerwise print "0"(without quotes) if not found.

Example 1

Input

4 9

2 7 5 11

Output

1

Explanation

2 + 7 = 9

Example 2

```
Input
```

1 2 3 4

Output

0

Explanation

No two elements sums to 6.

Constraints

```
1 <= n <= 10^5
1 <= sum <= 10^5
```

1 <= arr[i] <= 10^4

Topic Tags

Hashing

My code

```
// in 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();
    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("1");c=1;break;}
        else hm.add(m-arr[i]);
    if(c==0) System.out.print("0");
     }
```