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- EASY
- Max Score: 20 Points

Automorphic Number or Not

Write a Java program check whether a number is an Automorphic number or not.

In mathematics, an automorphic number is a number whose square "ends" in the same digits as the number itself. For example, $5^2 = 25$, $6^2 = 36$, $76^2 = 5776$, and $890625^2 = 793212890625$, so 5, 6, 76 and 890625 are all automorphic numbers.

Input Format

Any integer value.

Output Format

Return whether number is an "Automorphic Number" or "Not an Automorphic Number".

Example 1

Input

Output

Not an Automorphic Number

Example 2

Input

76

Output

Automorphic Number

Explanation

65 * 80 = 5200

Constraints

 $1 < = N < = 10^9$

Topic Tags

Java

My code

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 k=s.nextInt();
    int arr[]=new int[n];
    for(int i=0;i< n;i++)
      arr[i]=s.nextInt();
    HashMap<Integer,Integer> hm=new HashMap<>();
    int c=0;
      for(int i=0;i< n;i++)
             int r=arr[i]%k;
             int a=hm.getOrDefault(k-r,0);
             c=c+a;
              hm.put(r,hm.getOrDefault(r,0)+1);
       int a=hm.getOrDefault(0,0);
           a=a*(a-1);
           a/=2;
            c=c+a;
          /* for(int i=1;i<k/2;i++)
                 {
                      int a=hm.getOrDefault(i,0);
```

```
int b=hm.getOrDefault(k-i,0);
                       c=c+(a*b);
           if(k%2==0)
                  int a=hm.getOrDefault(k/2,0);
                a=a/2;
                c=c+a;
           }
                else
                  {
                     int a=hm.getOrDefault(k/2,0);
                      int b=hm.getOrDefault((k/2+1),0);
                       c=c+(a*b);
                  }*/
 System.out.print(c);
}
```