

Day 56 coding Statement : Write Program to find whether the numbers of an array be made equal

## Description

Check whether the numbers of array be made equal or not

For eg, for the following input it should print yes because

$50 \times 2 \times 3$  ,  $75 \times 2 \times 2$  and  $150 \times 2$  are equal to 300 in all cases. So array numbers can be made equal

## Input

3

50 75 150

## Output

Yes

```
import java.util.*;
public class Program
{
    public static boolean make_equal(int arr[], int n)
    {
        for (int i = 0; i < n; i++)
        {
            // Divide number by 2
            while (arr[i] % 2 == 0)
                arr[i] /= 2;

            // Divide number by 3
            while (arr[i] % 3 == 0)
                arr[i] /= 3;
        }
        // Remaining numbers
        for (int i = 1; i < n; i++)
            if (arr[i] != arr[0]){
                return false;
            }
        return true;
    }

    public static void main (String[] args)
    {
        int arr[] = { 50, 100, 75 };

        int m = arr.length;
```

```
        if (make_equal(arr, m))  
            System.out.print("Yes");  
        else  
            System.out.print("No");  
    }  
}
```