```java
import java.util.*;
public class Main{
    public static boolean cal(int a[], int n){
        for(int i=0;i<n;i++){
            while(a[i]%2 == 0){
                a[i]=a[i]/2;
            }
            while(a[i]%3 == 0){
                a[i]=a[i]/3;
            }
        }
        for(int i=1;i<n;i++){
            if(a[i] != a[0]){
                return false;
            }
        }
        return true;
    }
    public static void main(String args[]){
        Scanner sc=new Scanner(System.in);
        int n;
        System.out.println("Enter array length");
        n=sc.nextInt();
        System.out.println("Enter Array elements");
        int[] arr=new int[n];
        for(int i=0;i<n;i++){
            arr[i]=sc.nextInt();
        }

        if(cal(arr,n)){
            System.out.println("yes");
        }else{
            System.out.println("no");
        }

    }
}
```