**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\*2\*3 , 75\*2\*2 and 150\*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.Scanner;

public class RatanPrajapati\_day56 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        int size = sc.nextInt();

        int[] arr = new int[size];

        for (int i = 0; i < size; i++) {

            arr[i] = sc.nextInt();

        }

        for (int i = 0; i < size; i++) {

            while (arr[i] % 2 == 0) {

                arr[i] /= 2;

            }

            while (arr[i] % 3 == 0) {

                arr[i] /= 3;

            }

        }

        boolean is = true;

        for (int i = 1; i < size; i++) {

            if (arr[0] != arr[i]) {

                is = false;

                break;

            }

        }

        if (is) {

            System.out.println("YES");

        } else {

            System.out.println("No");

        }

    }

}