https://course.acciojob.com/idle?question=a55b9f82-c590-4967-97fd-3835d72e7b90

- EASY
- Max Score: 30 Points

Get the desired array

Consider an array with `N` elements and value of all the elements is zero. We can perform following operations on the array.

Incremental operations:Choose 1 element from the array and increment its value by 1.

Doubling operation: Double the values of all the elements of array.

We are given desired array `target[]` containing `N` elements. Compute and return the smallest possible number of the operations needed to change the array from all zeros to desired array.

Input Format

First line contains integer `N`.

Second line contains n integers `target[i]`.

Output Format

Print the number of moves required.

Example 1

Input:

```
2
2 3
```

Output:

```
4
```

Explanation:

To get the target array from {0, 0}, we first increment both elements by 1 (2 operations), then double the array (1 operation). Finally increment second element (1 more operation)

Example 2

Input:

```
2
2 1
```

Output:

```
3
```

Explanation:

One of the optimal solution is to apply the incremental operation 2 times to first and once on second element.

Constraints

0 <= N <= 10000

0 <= target[i] <= 100

Topic Tags

- **Arrays**

My code

// in java

```
import java.util.*;

class Accio{
    static int Getthedesiredarray(int N,int[] arr){
            int ans =0;
            while(true)
                    {
                            for(int i=0;i<N;i++)
                                    if(arr[i]%2==1)
                                    {
                                            arr[i]=arr[i]-1;
                                            ans++;
                                    }
                            int flag=0;
                            for(int i=0;i<N;i++)
                                    if(arr[i]!=0)
                                            flag=1;
                           if(flag==0)
                                   break;
                             for(int i=0;i<N;i++)
                                       arr[i]=arr[i]/2;
                                          ans++;
                    }
            return ans;
    }
}

public class Main {
    public static void main(String[] args) throws Throwable {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int nums[]=new int[n];
```

```
        for(int i = 0; i < n; i++)
        {
            nums[i] = sc.nextInt();
        }
        Accio obj = new Accio();
        int ans=obj.Getthedesiredarray(n,nums);
        System.out.println(ans);
    }
}
```