# https://course.acciojob.com/idle?question=4dc94614-e099-4713-a03 d-5026978ffab6

- EASY
- Max Score: 30 Points

# MultiplyArrayElements

Given an array, we have to calculate the product of an array.

#### **Input Format**

The first line contains an integer 'N' denoting the number of elements. The second line contains 'N' space-separated integers denoting the elements of the array.

#### **Output Format**

Print the multiplication of all the elements of array mod 10^9+7.

## Example 1

Input

5 1 3 5 5 5

Output

375

Explanation

The multiplication of arr[1],arr[2],arr[3],arr[4],arr[5] is 375.

### Example 2

```
Input
```

```
10
10 10 10 10 10 10 10 10 10 10 10
```

Output

999999937

Explanation

The multiplication of all element modulo 1e9+7 is 999999937.

#### **Constraints**

```
2 <= N <= 3000
```

0 <= A[i] <= 5000

#### **Topic Tags**

- Math
- Arrays

# My code

```
// in java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
    static long mod=(long)(Math.pow(10,9)+7);
```

```
static long fun( int arr[], int n)
{
    if(n==0) return 1;
    return ( (arr[n-1])%mod*fun(arr,n-1)%mod)%mod;
}
    public static void main (String[] args) throws java.lang.Exception
    {
        //your code here
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        int arr[]=new int [n];
        for(int i=0;i<n;i++)
            arr[i]=s.nextInt();
        long m=fun(arr,n);
        System.out.print(m);
}
</pre>
```