



## Find Product

Attempted by: 47757 / Accuracy: 27% / Maximum Score: 10 ★★★★★ 911 Votes

Tag(s): Very-Easy

**PROBLEM****EDITORIAL****MY SUBMISSIONS****ANALYTICS**

You have been given an array  $A$  of size  $N$  consisting of positive integers. You need to find and print the product of all the number in this array **Modulo**  $10^9 + 7$ .

**Input Format:**

The first line contains a single integer  $N$  denoting the size of the array. The next line contains  $N$  space separated integers denoting the elements of the array

**Output Format:**

Print a single integer denoting the product of all the elements of the array **Modulo**  $10^9 + 7$ .

**Constraints:**

$$1 \leq N \leq 10^3$$

$$1 \leq A[i] \leq 10^3$$

SAMPLE INPUT	SAMPLE OUTPUT
5 1 2 3 4 5	120

**Explanation**

There are 5 integers to multiply. Let's store the final answer in *answer* variable. Since 1 is identity value for multiplication, initialize *answer* as 1.

So the process goes as follows:

$$answer = 1$$

$$answer = (answer \times 1) \% (10^9 + 7)$$

$$answer = (answer \times 2) \% (10^9 + 7)$$

$$answer = (answer \times 3) \% (10^9 + 7)$$

$$answer = (answer \times 4) \% (10^9 + 7)$$

$$answer = (answer \times 5) \% (10^9 + 7)$$

The above process will yield answer as 120

**Time Limit:** 1.0 sec(s) for each input file.

**Memory Limit:** 256 MB

**Source Limit:** 1024 KB

**Marking Scheme:** Marks are awarded when all the testcases pass.

**Allowed Languages:** Bash, C, C++, C++14, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), TypeScript, Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Swift-4.1, Visual Basic

**BEST SUBMISSIONS**LANGUAGE: **Bash**

TIME (sec) 0.42097  
MEMORY (KiB) 64

by Ankur Parihar

[VIEW BEST SUBMISSION](#)[VIEW ALL SUBMISSION](#)**CONTRIBUTOR****AUTHOR**

Anand Jaisingh

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java 8 (oracle 1.8.0\_131)



```
1 import java.util.Scanner;
2 import java.lang.Math;
3
4 class TestClass {
5     public static void main(String args[] ) throws Exception {
6
7         Scanner s = new Scanner(System.in);
8         int N = s.nextInt();
9         int ar[]=new int[N];
10        int ans=1;
11        for(int i=0;i<N;i++){
12            ar[i]=s.nextInt();
13            ans=(int)(ans*ar[i])%(Math.pow(10,9)+7);
14        }
15        System.out.println(ans);
16    }
17 }
18
```



🔍 Press Ctrl/Command+Spacebar for autocomplete suggestions (accuracy dependent on connection stability).

🔗 Provide custom input

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Your Rating: ★★★★★

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### Seating Arrangement

Attempted By: 21577 / Accuracy: 52

★★★★★ 792 Votes

### Anagrams

Attempted By: 14438 / Accuracy: 36

★★★★★ 384 Votes

### E-Maze-In

Attempted By: 2338 / Accuracy: 91

★★★★★ 74 Votes

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