### Product array puzzle(8 times asked )

Given an array **nums[]** of size **n**, construct a Product Array **P** (of same size n) such that**P[i]** is equal to the product of all the elements of **nums** except nums[i].

**Example 1:**

**Input:**

n = 5

nums[] = {10, 3, 5, 6, 2}

**Output:**

180 600 360 300 900

**Explanation:**

For i=0, P[i] = 3\*5\*6\*2 = 180.

For i=1, P[i] = 10\*5\*6\*2 = 600.

For i=2, P[i] = 10\*3\*6\*2 = 360.

For i=3, P[i] = 10\*3\*5\*2 = 300.

For i=4, P[i] = 10\*3\*5\*6 = 900.

**Example 2:**

**Input:**

n = 2

nums[] = {12,0}

**Output:**

0 12

### JA VA CODE

### //{ Driver Code Starts

### //Initial Template for Java

### import java.io.\*;

### import java.util.\*;

### class CodingMaxima{

### public static void main(String args[]) throws IOException {

### Scanner sc = new Scanner(System.in);

### int t = sc.nextInt();

### while(t > 0){

### int n = sc.nextInt();

### int[] array = new int[n];

### for (int i=0; i<n ; i++ ) {

### array[i] = sc.nextInt();

### }

### Solution ob = new Solution();

### long[] ans = new long[n];

### ans = ob.productExceptSelf(array, n);

### for (int i = 0; i < n; i++) {

### System.out.print(ans[i]+" ");

### }

### System.out.println();

### t--;

### }

### }

### }

### 

### // } Driver Code Ends

### //User function Template for Java

### class Solution

### {

### public static long[] productExceptSelf(int nums[], int n)

### {

### long[] arr=new long[n];

### for(int i=0;i<n;i++){

### long sum=1;

### for(int j=0;j<n;j++){

### if(i!=j)

### sum=sum\*nums[j];

### }

### arr[i]=sum;

### }

### 

### return arr;

### }

### }