rray except self

teger array nums, return an array answer such that answer[i] is equal to the product of all the elements of nums except nums[i].

rite an algorithm that runs in O(n) time and without using the division operation.

lve the problem in O(1) extra space complexity? (The output array does not count as extra space for space complexity analysis.)

mat

onsists of multiple testcases.

e of input contains an integer t - the number of testcases.

ng 2*t lines contain the description of the t testcases.

e of each testcase contains an integer n - the size of the array.

l line of each testcase contains n space-separated integers `nums[1],nums[1],...nums[i]..,nums[n]`

nts

```
<= 10^3
ms.length <= 10^5
nums[i] <= 30
```

ormat

stcase output the n integers, where n is the size of the array of that testcase, where the ith (1<=i<=n) integer is the product of the array except for the ith elem

ut 1

Sample Output 1

```
24 12 8 6
0 0 9 0 0
```

se

```
ums[2]*nums[3]*nums[4] = 24
ums[1]*nums[3]*nums[4] = 12
ums[1]*nums[2]*nums[4] = 8
ums[1]*nums[2]*nums[3] = 6
```

Script Reset to default code definition Theme: Tern

```
tion solve(n,nums){

t answer = [];
t left = 1;
t right = 1;

r (let i = 0; i < nums.length; i++) {
answer[i] = left;
left *= nums[i];


r (let i = nums.length - 1; i >= 0; i--) {
answer[i] *= right;
right *= nums[i];


turn answer;
```

```
runProgram=(input) =>{
nput=input.trim().split("\n")
let tc=+input[0];
let line=1;
for(let i=0;i<tc;i++){
    let n=+input[line++];
    let arr=input[line++].trim().split(" ").map(Number);
    let ans=solve(n,arr)
    console.log(ans.join(" "))
}
```

```
process.env.USER === "") {
nProgram(``);
```

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```
ocess.stdin.setEncoding("ascii");
+ read = "";
```

n input

Run Code

I the problem

led

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