SANJAYRAM M 2024-CSE

```
Correct

Marked out of 3,00

Input Format

1. First line is number of test cases T. Following T lines contain:

2. N. followed by N integers of the array

3. The non-negative integer k

Output format

Print 1 if such a pair exists and 0 if it doesn't.

Example

Input

Output

Output
```

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Question 2
Correct
Marked out of 5.00
F Flag

Sam loves chocolates and starts buying them on the 1st day of the year. Each day of the year, x, is numbered from 1 to Y. On days when x is odd, Sam will buy x chocolates; on days when x is even, Sam will not purchase any chocolates.

Complete the code in the editor so that for each day Ni (where $1 \le x \le N \le Y$) in array arr, the number of chocolates Sam purchased (during days 1 through N) is printed on a new line. This is a function-only challenge, so input is handled for you by the locked stub code in the editor.

Input Format

The program takes an array of integers as a parameter.

The locked code in the editor handles reading the following input from stdin, assembling it into an array of integers (arr), and calling calculate(arr).

The first line of input contains an integer, T (the number of test cases). Each line i of the T subsequent lines describes the ith test case as an integer, Ni (the number of days).

Constraints

 $1 \le T \le 2 \times 105$ $1 \le N \le 2 \times 106$ $1 \le x \le N \le Y$

```
Answer: (penalty regime: 0 %)
```

	Input	Expected	Got	
~	3	1	1	~
	1	1	1	
	2	4	4	
	3			
~	10	1296	1296	~
	71	2500	2500	
	100	1849	1849	
	86	729	729	
	54	400	400	
	40	25	25	
	9	1521	1521	
	77	25	25	
	9	49	49	
	13	2401	2401	
	98			

Passed all tests! 🗸

Question 3 Correct Marked out of 7.00

P Flag question The number of goals achieved by two football teams in matches in a league is given in the form of two lists. Consider:

- Football team A, has played three matches, and has scored { 1 , 2 , 3 } goals in each match respectively.
- Football team B, has played two matches, and has scored { 2, 4 } goals in each match respectively.
- Your task is to compute, for each match of team B, the total number of matches of team A, where team A has scored less than or equal to the number of goals scored by team B in that match.
- In the above case
- For 2 goals scored by team B in its first match, team A has 2 matches with scores 1 and 2.
- For 4 goals scored by team B in its second match, team A has 3 matches with scores 1, 2 and 3.

Hence, the answer: {2, 3}.

Complete the code in the editor below. The program must return an array of m positive integers, one for each maxes[i] representing the total number of elements nums[j] satisfying nums[j] \leq maxes[j] where $0 \leq j < n$ and $0 \leq i < m$, in the given order.

It has the following

nums[nums[0],...nums[n-1]]: first array of positive integers
maxes[maxes[0],...maxes[n-1]]: second array of positive integers

Constraints

- 2 ≤ n, m ≤ 105
- $1 \le nums[j] \le 109$, where $0 \le j < n$.
- 1 ≤ maxes[i] ≤ 109, where 0 ≤ i < m.

Answer: (penalty regime: 0 %)

```
| int main(){
    int main(){
    int n,m;
        scanf("Md",&n);
    int num[n];
    for(int i=0;icm;i++){
        scanf("Md",&n);
    int max[n];result[m];
    for(int i=0;icm;i++){
        scanf("Md",&nax[l]);
    }
    for(int j=0;jcm;j++){
        int c=0;
        for(int j=0;jcm;j++){
        int c=0;
        for(int j=0;icm;i++){
        int c=0;
        for(int j=0;icm;i++){
        int c=0;
        for(int j=0;icm;i++){
        int c=0;
        if(num[j]c=max[i]){
        if(num[j]c=max[i]);
        if(num[j]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=max[i]c=
```

	Input	Expected	Got	
~	4	2	2	~
	1	4	4	
	4			
	1 4 2 4 2 3			
	4			
	2			
	3			
	5			
~	5	1	1	~
	2	0	0	
	10	3	3	
	5	4	4	
	4			
	8			
	4			
	3			
	1			
	7			
	8			

Passed all tests! 🗸