

Question 1

Correct

Marked out of 10.00

You are given an array A of length N and Q tasks,

Each task is of the following type:

L R V: Apply the bitwise-and operator with V for all A[i], where $L \leq i \leq R$

You need to print the array after performing all the tasks.

Input format:

- First line contains T, the number of test cases. Each test case contains:
- First line: Two Integers N (denoting the length of the array) and Q (denoting the number of tasks)
- Second line: N space-separated elements of the array
- Each of the following Q lines contains a task in the described format

Output format:

Print the final array after performing all the Q tasks.

Constraints:

$$1 \leq N \leq 10^6$$

Output format:

Print the final array after performing all the Q tasks.

Constraints

- $1 \leq N \leq 10^5$
- $1 \leq Q \leq 2 \cdot 10^5$
- $1 \leq A[i], V \leq 10^9$
- $1 \leq L \leq R \leq N$

Sample Input:

```
1
5 2
7 7 7 7 7
1 3 4
1 5 6
```

Sample Output:

```
4 4 4 6 6
```

Explanation:

After first task, the array will be (4,4,4,7,7)

After second task, the array will be (4,4,4,6,6).

For example:

Input	Result
1 5 2 7 7 7 7 7 1 3 4 1 5 6	4 4 4 6 6

Answer: (penalty regime: 0 %)

```
1 for i in range(int(input())):
2     n,q=list(map(int,input().split()))
3     arr=list(map(int,input().split()))
4     for i in range(q):
5         l,r,v=list(map(int,input().split()))
6         for k in range(r):
7             and_op= arr[k] & v
8             arr[k]=and_op
```

```
9 | print(*arr)
10 |
11 |
```

	Input	Expected	Got	
✓	1 5 2 7 7 7 7 7 1 3 4 1 5 6	4 4 4 6 6	4 4 4 6 6	✓

Passed all tests! ✓