**The AND Gate**

[bit](http://www.practice.geeksforgeeks.org/tag-page.php?tag=bit&isCmp=0)

Construct an N input AND Gate. An AND Gate returns 1 if all its inputs are 1, otherwise 0.

**Input:**

The first line of input takes the number of test cases, T. Then T test cases follow.

Each test case consists of 2 lines.

The first line of each test case takes the number of inputs to the AND Gate, N. The second line of each test case takes N space separated integers denoting the inputs to the  AND Gate. Note that the inputs can be either 1's or 0's.

**Output:**

Print the output of the N input AND Gate for each test case on a new line.

**Constraints:**

1<=T<=100

1<=N<=100

**Example:**

**Input:**

3  
2  
1 1  
3  
1 0 1  
4  
1 1 1 0

**Output:**

1

0

0

\*\*For More Examples Use Expected Output\*\*

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<http://www.practice.geeksforgeeks.org/problem-page.php?pid=1333>

#include<stdio.h>

#include<math.h>

#include <iostream>

#include<cmath>

#define ll long long int

using namespace std;

int main()

{

int t;

scanf("%d",&t);

while(t--) {

int n;

scanf("%d", &n);

int res = 1;

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

int elem ;

scanf("%d", &elem);

if(elem == 0) {

res = 0;

}

}

cout << res << endl;

}

return 0;

}