

A. Marathon

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

You are given four **distinct** integers a, b, c, d .

Timur and three other people are running a marathon. The value a is the distance that Timur has run and b, c, d correspond to the distances the other three participants ran.

Output the number of participants in front of Timur.

Input

The first line contains a single integer t ($1 \leq t \leq 10^4$) — the number of test cases.

The description of each test case consists of four **distinct** integers a, b, c, d ($0 \leq a, b, c, d \leq 10^4$).

Output

For each test case, output a single integer — the number of participants in front of Timur.

Example

input
4 2 3 4 1 10000 0 1 2 500 600 400 300 0 9999 10000 9998
output
2 0 1 3

Note

For the first test case, there are 2 people in front of Timur, specifically the participants who ran distances of 3 and 4. The other participant is not in front of Timur because he ran a shorter distance than Timur.

For the second test case, no one is in front of Timur, since he ran a distance of 10000 while all others ran a distance of 0, 1, and 2 respectively.

For the third test case, only the second person is in front of Timur, who ran a total distance of 600 while Timur ran a distance of 500.