# B. Fireworks

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

One of the days of the hike coincided with a holiday, so in the evening at the camp, it was decided to arrange a festive fireworks display. For this purpose, the organizers of the hike bought two installations for launching fireworks and a huge number of shells for launching.

Both installations are turned on simultaneously. The first installation launches fireworks every $a$ minutes (i.e., after $a, 2 \cdot a, 3 \cdot a, \ldots$ minutes after launch). The second installation launches fireworks every $b$ minutes (i.e., after $b, 2 \cdot b, 3 \cdot b, \ldots$ minutes after launch).

Each firework is visible in the sky for $m + 1$ minutes after launch, i.e., if a firework was launched after $x$ minutes after the installations were turned on, it will be visible every minute from $x$ to $x + m$, inclusive. If one firework was launched $m$ minutes after another, both fireworks will be visible for one minute.

What is the maximum number of fireworks that could be seen in the sky at the same time?

## Input

Each test consists of several test cases. The first line contains a single integer $t$ ($1 \le t \le 10^4$) — the number of test cases. Then follow the descriptions of the test cases.

The first and only line of each test case contains integers $a$, $b$, $m$ ($1 \le a, b, m \le 10^{18}$) — the frequency of launching for the first installation, the second installation, and the time the firework is visible in the sky.

## Output

For each set of input data, output a single number — the maximum number of fireworks that can be seen simultaneously.

### Example

input

```
6
6 7 4
3 4 10
7 8 56
5 6 78123459896
1 1 1
1 1 1000000000000000000
```

output

```
2
7
17
28645268630
4
2000000000000000002
```

## Note

In the first set of input data, the fireworks are visible in the sky for $5$ minutes. Since the first installation launches fireworks every $6$ minutes, and the second one every $7$ minutes, two fireworks launched from the same installation will not be visible in the sky at the same time. At the same time, after $7$ minutes from the start of the holiday, one firework from the first and one from the second camp will be visible. Thus, it is possible to see no more than $2$ fireworks simultaneously.

In the third set of input data, $17$ fireworks will be visible after $112$ minutes:

- $9$ fireworks launched from the first installation at times [$56, 63, 70, 77, 84, 91, 98, 105, 112$];

- 8 fireworks launched from the second installation at times [56, 64, 72, 80, 88, 96, 104, 112].

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