## Baby Step, Giant Step

You are standing at point $(0,0)$ on an infinite plane. In one step, you can move from some point $\left(x_{f}, y_{f}\right)$ to any point $\left(x_{t}, y_{t}\right)$ as long as the Euclidean distance, $\sqrt{\left(x_{f}-x_{t}\right)^{2}+\left(y_{f}-y_{t}\right)^{2}}$, between the two points is either $a$ or $b$. In other words, each step you take must be exactly $a$ or $b$ in length.

You are given $q$ queries in the form of $a, b$, and $d$. For each query, print the minimum number of steps it takes to get from point $(0,0)$ to point $(d, 0)$ on a new line.

## Input Format

The first line contains an integer, $q$, denoting the number of queries you must process.
Each of the $q$ subsequent lines contains three space-separated integers describing the respective values of $a, b$, and $d$ for a query.

## Constraints

- $1 \leq q \leq 10^{5}$
- $1 \leq a<b \leq 10^{9}$
- $0 \leq d \leq 10^{9}$


## Output Format

For each query, print the minimum number of steps necessary to get to point $(d, 0)$ on a new line.

## Sample Input 0

```
3
2 3 1
1 2 0
3411
```


## Sample Output 0

```
2
0
3
```


## Explanation 0

We perform the following $q=3$ queries:

1. One optimal possible path requires two steps of length $a=2:(0,0) \overrightarrow{2}\left(\frac{1}{2}, \frac{\sqrt{15}}{2}\right) \overrightarrow{2}(1,0)$. Thus, we print the number of steps, 2 , on a new line.
2. The starting and destination points are both $(0,0)$, so we needn't take any steps. Thus, we print 0 on a new line.
3. One optimal possible path requires two steps of length $b=4$ and one step of length $a=3$ : $(0,0) \overrightarrow{4}(4,0) \overrightarrow{4}(8,0) \overrightarrow{3}(11,0)$. Thus, we print 3 on a new line.
