Monkey and Bamboo
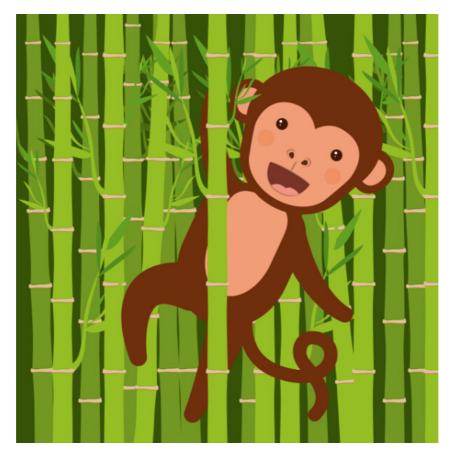
Problem   Submissions   Discussions

Problem Statement

There is an H feet long bamboo that is smeared with oil. A monkey climbs up A feet in the first minute and drops down B feet in the second minute. Now, find out how many minutes it will take to reach the ending point of the bamboo. If it is not possible to reach, print **Impossible**.

Input Format

- First line will contain T, the number of test cases.

- Each line of test case will contain H, A and B.

Constraints

1. $1 \leq T \leq 10^5$

2. $1 \leq H, A, B \leq 10^9$

Output Format

- Output the ceil value of how many minutes it will take or print **Impossible**.

Sample Input 0

```
6
92 12 8
92 12 15
10 12 15
15 12 15
15 12 10
16 12 10
```

Sample Output 0

```
41
Impossible
1
Impossible
5
5
```

C++20

```cpp
1  #include <cmath>
2  #include <cstdio>
3  #include <vector>
4  #include <iostream>
5  #include <algorithm>
6  using namespace std;
7
8
9  int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

⬆ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code