Dalvik

Time limit: *1000 ms*
Memory limit: *256 MB*

Given the following smali code below, write a program that, given the three input values, returns the output.

```
30  if-gt v13,v4,:l3
31  sub-int v13,v4
        ,v13
32  :l3
33  move v17,v4
34  move v18,v3
35  :l4
36  add-int v17,v17
        ,v13
37  add-int v18,v18
        ,v3
38  if-le v18,v6,:l4
39  move v18,v3
40  :l5
41  sub-int v17,v17
        ,v9
42  add-int v18,v18
        ,v3
43  if-le v18,v12
        ,:l5
44  if-ge v17,v4,:l6
45  move v5,v14
46  move v6,v12
47  move v7,v15
48  move v8,v10
49  move v9,v13
50  :l6
51  add-int v12,v12
        ,v3
52  if-le v12,v2,:l0
53  return v6
54
```

Standard input

The input contains a single integer T on the first line, the number of test cases.

Each of the next T lines has three integers A, B, and C.

Standard output

For each test case output R which is returned from the smali code above when A, B, and C are inserted into the first three lines.

Constraints and notes

- $1 \leq T \leq 40$
- $1 \leq A < 2^{32}$
- $1 \leq B < 2^{32}$
- $1 \leq C < 10^9$

Input	Output
4 10 3 5 987 654 321 2023 1028 321 1229276485 555555555 3565	3 218 218 3418