

## 6084 Happy Camper

As Happy Camper Harry pulls into his favorite campground with his family, he notices the sign: 'Campground occupancy is limited to 10 days within any consecutive 20-day period.' Harry is just starting a 28-day vacation. What is the maximum number of days he can occupy a campsite during his vacation?

We state the problem in more general terms. Suppose that  $1 < L < P < V$  are integers. Campground occupancy is limited to  $L$  days within any consecutive  $P$ -day period. Happy Camper Harry is just starting a  $V$ -day vacation. What is the maximum number of days he can occupy a campsite during his vacation?

### Input

The input will contain data for a number of test cases. For each test case, there will be one line of data, containing values of  $L$ ,  $P$  and  $V$ , in that order. All input integers can be represented by signed 32-bit integers. End of data will be signaled by a line containing three zeros, which will not be processed.

### Output

There will be one line of output for each test case. It will display the case number and the number of days Happy Camper Harry can occupy a campsite during his vacation. The format is illustrated by the sample output.

### Sample Input

```
5 8 20
5 8 17
0 0 0
```

### Sample Output

```
Case 1: 14
Case 2: 11
```