

# Empty The Tank

Given a tank with capacity  $C$  liters which is completely filled in starting. Everyday tank is filled with 1 liters of water and in the case of overflow extra water is thrown out. Now on  $i$ -th day  $i$  liters of water is taken out for drinking. We need to find out the day at which tank will become empty the first time.

## Examples:

**Input** : Capacity = 5  
          1 = 2

**Output** : 4

At the start of 1st day, water in tank = 5  
and at the end of the 1st day =  $(5 - 1) = 4$   
At the start of 2nd day, water in tank =  $4 + 2 = 6$   
but tank capacity is 5 so water = 5  
and at the end of the 2nd day =  $(5 - 2) = 3$   
At the start of 3rd day, water in tank =  $3 + 2 = 5$   
and at the end of the 3rd day =  $(5 - 3) = 2$   
At the start of 4th day, water in tank =  $2 + 2 = 4$   
and at the end of the 4th day =  $(4 - 4) = 0$   
So final answer will be 4

## Input:

1  
5  
2

## Output:

4