

Q3. Snail and Well (30 marks)

There is a well with a depth of h meters. A snail is crawling upwards from the bottom of the well. During the day, the snail can crawl up m meters, but at night, it slips down n meters. It is known that $0 \leq n < m \leq h \leq 20$. Assume the snail can reach the top of the well on the d -th day. What is the value of d ?

Write a program to**Input, in sequence:**

Three positive integers, h , m , and n , where their meanings are as defined above. It is also known that $0 \leq n < m \leq h \leq 20$.

Output:

d , indicating that the snail can reach the top of the well on the d -th day, where d is a positive integer.

试题 3. 蜗牛与井 (30 分)

一口井，深 h 米，有一只蜗牛在井底往上爬。白天蜗牛能往上爬 m 米，到了晚上它却滑落 n 米，已知 $0 \leq n < m \leq h \leq 20$ 。假设蜗牛在第 d 天可以抵达井口，请问 d 的值为何？

试写一程式以**依序输入：**

三个正整数， h 、 m 、以及 n ，其意如上所定义，并且已知 $0 \leq n < m \leq h \leq 20$ 。

输出：

d , 意即第 d 天蜗牛可以抵达井口，其中 d 为一个正整数。

Example (例子)

Input (输入)	Output (输出)
20 5 0	4
3 3 2	1
8 7 4	2
6 2 1	5
14 6 3	4

Test Cases:

Input (输入)	Output (输出)
20 5 0	4
3 3 2	1
8 7 4	2
6 2 1	5
14 6 3	4
10 5 2	3
16 5 1	4
5 3 1	2