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The Virtual Learning Environment for Computer Programming

Allowance (3)	X30229_en
Control 1, GRAU-PRO1, FIB (2014-10-06)	

You have saved n euros. Additionally, every Monday of the forthcoming weeks you will be given a weekly allowance. On odd weeks, you get  $a_0$  euros, while on even weeks you will receive  $a_0$  euros. On the i-th week, your amount of expenses sums up to  $d_i$  euros. The first week is the week i = 1 and, therefore, it is an odd week.

Write a program that computes the balance at the end of each week.

#### Input

The input consists of three natural numbers,  $a_o \ge 0$ ,  $a_e \ge 0$  and  $n \ge 0$ . Representing the allowance on odd weeks, the allowance on even weeks and the initial savings, respectively. Following, there is a non-empty sequence of natural numbers where each element  $d_i \ge 0$ . Each element  $d_i$  represents the expenses of the i-th week.

#### Output

The output is a sequence of integers. Each element of this sequence  $b_i$  indicates the balance at the end of the i-th week, once the corresponding expenses are payed.

Follow the format specified in the examples. Your code should follow the rules of style and contain the comments that you deem appropriate.

Sample input 1	Sample output 1
10 5 100	40
70	35
10	35
10	15
25	0
25	-20
25	-35
25	-55
25	

Sample input 2	Sample output 2
5 10 90	-5
100	-5 -5
10	-10 -10
10	-10
10	

Sample input 3	Sample output 3
10 0 100	0
110	0
0	0
10	0
0	0
10	

## Sample input 4

0	0	-
1		
1		
1		
1		
1		

## Sample output 4

### **Problem information**

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