

1. Program

Revisit Later

## Question 1

## How to Attempt?

## Weight of a hill pattern

Given,  
the total levels in a hill pattern (input1),  
the weight of the head level (input2), and  
the weight increments of each subsequent level (input3),  
you are expected to find the total weight of the hill pattern.

"Total levels" represents the number of rows in the pattern.

"Head level" represents the first row.

Weight of a level represents the value of each star (asterisk) in that row.

The hill patterns will always be of the below format, starting with 1 star at head level and increasing 1 star at each level till level N.

```
*  
**  
***  
****  
*****  
*****  
...and so on till level N
```

Let us see a couple of examples.

## Example1 -

Given,  
the total levels in the hill pattern = 5 (i.e. with 5 rows)  
the weight of the head level (first row) = 10  
the weight increments of each subsequent level = 2  
Then, The total weight of the hill pattern will be calculated as =  $10 + (12+12) + (14+14+14) + (16+16+16+16) + (18+18+18+18+18) = 10 + 24 + 42 + 64 + 90 = 230$

## Example2 -

Given,  
the total levels in the hill pattern = 4  
the weight of the head level = 1  
the weight increments of each subsequent level = 5  
Then, Total weight of the hill pattern will be =  $1 + (6+6) + (11+11+11) + (16+16+16+16) = 1 + 12 + 33 + 64 = 110$

```
C  
1 #include<stdio.h>  
2 #include<string.h>  
3 // Read only region start  
4  
5 int totalHillWeight(int input1,int input2,int input3)  
6 {  
7     // Read only region end  
8     // Write code here  
9     int sum=0;  
10    for(int i=0;i<input1;i++)  
11    {  
12        for(int j=0;j<=i;j++)  
13        {  
14            sum+=input2;  
15        }  
16        input2+=input3;  
17    }  
18    return sum;  
19 }
```

☐ Use Custom Input

ⓘ

Compile and Test

Submit Code

1. Program

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Example2 -

Given,  
the total levels in the hill pattern = 4  
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Then, Total weight of the hill pattern will be =  $1 + (6+6) + (11+11+11) + (16+16+16+16) = 1 + 12 + 33 + 64 = 110$

Use Custom Input

Code Execution

0/8 - Graded Test

✓ Corner 2

✓ Corner 1

✓ Necessary 2

✓ Necessary 1

✓ Basic 4

✓ Basic 3

✓ Basic 2

✓ Basic 1

1

Attempt

Finish Test

Remaining Time: 00:55:20

Your Test Summary

1 Total Questions

● Attempted: 1/1

● Marked for Revisit: 0/1

● Unattempted: 0/1

Section Summary

#	SECTION NAME	STATUS
1.	Program Untimed Section	<div>1</div> <div>Total: 1 Questions</div>

Yes, End Test!

No, Back to Test