

 **VIT.C** **</POD>**

⦿ The Group made to help each other and learn new stuff.

⦿ Solution for Problem of the Day on Vpropel will be provided here

⦿ I WILL TRY TO PROVIDE A SOLUTION IN ALL OR MOST POSSIBLE LANGUAGES

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VIT.C

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PROBLEM OF THE DAY

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QUESTION:

#Points on the line

'''A line in 2-dimensional plane is represented as an equation $a*x+b*y+c=0$, where a is called the coefficient of x , b is called as the coefficient of y and c is the constant term. Here a, b, c are all real numbers.

A point in a 2-dimensional plane is represented as a pair of numbers (x_1, y_1) , where x_1 and y_1 are both real numbers

and x_1 is called as the x-coordinate of the point, y_1 is called as the y-coordinate of the point.

A point (x_1, y_1) will lie on a line if $a*(x_1) + b*(y_1) + c = 0$. Consider the line $2*x+3*y-1=0$. T

he point $(-1, 1)$ is a point on the line : $2*x+3*y-1=0$ since $2*(-1) + 3*(1) - 1 = 0$.

Given an equation of the line $a*x+b*y+c=0$ and an integer n , write an algorithm and the subsequent code to print n points on the

line such that the x-coordinates of all the n -points are the odd integers

1, 3, 5, 7, ... respectively. Among the n -points,

x-coordinate of the first point is 1, x-coordinate of the second point is 3, x-coordinate of the third point is 5 and so on.

Your code should print the y-coordinates of all the n -points that lie on the given line. All the real numbers are represented in the 2-decimal format.

Let the equation of the line $2*x + 3*y - 15 = 0$, 3 points which lie on this line, are required such that the

x-coordinate of the first point is 1, the x-coordinate of the second point is 3, x-coordinate of the third point is 5.

Here $2*1 + 3*4.33 - 15 = 0$. Hence, the point $(1, 4.33)$ lie on the line

$2*3 + 3*(3.00) - 15 = 0$. Hence, the point $(3, 3.00)$ lie on the line

$2*5 + 3*(1.67) - 15 = 0$. Hence the point $(5, 1.67)$ lie on the line.

Hence, your program should output 4.33, 3.00, 1.67

Note: To print the only decimal places of value of a variable answer, syntax to be used in Python is

```
print(format(answer,'0.2f'))
```

Input format :

First line contains the coefficient of x, a

Second line contains the coefficient of y, b

Third line contains the value of constant term , c

Fourth line contains the number of points required , n

Output format:

First line contains the y-coordinate of the first point

Second line contains y-coordinate of the second point

nth line contains y-coordinate of the n-th point

Example :

Input :

```
2
3
-15
3
```

Output :

```
4.33
3.00
1.67
...
```

SOLUTION:

```
a,b,c,n=int(input()) , int(input()),int(input()),int(input())
#a*x+b*y+c=0
l=[]
for i in range(n+3):
    if (i%2)!=0:
        l.append(i)

for i in l:
    x=i
    y=-((a*x + c)/b)
    print("{:.2f}".format(y))
```

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