

Problem

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Prepare > Java > Introduction > Java Loops II

Exit Full Screen View

The first line contains an integer, q , denoting the number of queries.

Each line i of the q subsequent lines contains three space-separated integers describing the respective a_i , b_i , and n_i values for that query.

Constraints

- $0 \leq q \leq 500$
- $0 \leq a, b \leq 50$
- $1 \leq n \leq 15$

Output Format

For each query, print the corresponding series on a new line. Each series must be printed in order as a single line of n space-separated integers.

Sample Input

```
2
0 2 10
5 3 5
```

Sample Output

```
2 6 14 30 62 126 254 510 1022 2046
8 14 26 50 98
```

Explanation

We have two queries:

- We use $a = 0$, $b = 2$, and $n = 10$ to produce some series s_0, s_1, \dots, s_{n-1} :
 - $s_0 = 0 + 1 \cdot 2 = 2$
 - $s_1 = 0 + 1 \cdot 2 + 2 \cdot 2 = 6$
 - $s_2 = 0 + 1 \cdot 2 + 2 \cdot 2 + 4 \cdot 2 = 14$... and so on.
- Once we hit $n = 10$, we print the first ten terms as a single line of space-separated integers.
- We use $a = 5$, $b = 3$, and $n = 5$ to produce some series s_0, s_1, \dots, s_{n-1} :
 - $s_0 = 5 + 1 \cdot 3 = 8$

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Language

Java 7

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```
1 import java.util.*;
2 import java.io.*;
3
4 class Solution{
5     public static void main(String []argh){
6         Scanner in = new Scanner(System.in);
7         int t=in.nextInt();
8
9         for(int i=0;i<t;i++){
10             int a = in.nextInt();
11             int b = in.nextInt();
12             int n = in.nextInt();
13
14             for(int j = 0; j < n; j++){
15                 a = a + (int)Math.pow(2,j)*b;
16                 System.out.print(a + " ");
17             }
18             System.out.println("");
19         }
20         in.close();
21
22     }
23 }
```

Line: 23 Col: 2

⬆ Upload Code as File

Test against custom input

Run Code

Submit Code

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 - ... and so on.Once we hit $n = 10$, we print the first ten terms as a single line of space-separated integers.
- We use $a = 5$, $b = 3$, and $n = 5$ to produce some series s_0, s_1, \dots, s_{n-1} :
 - $s_0 = 5 + 1 \cdot 3 = 8$

Line: 23 Col: 2

Upload Code as FileTest against custom input

Run CodeSubmit Code

You have earned 10.00 points!

You are now 22 points away from the 3rd star for your java badge.

27%58/80

Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Compiler Message

Success

Input (stdin)

Download

1 2

2 0 2 10

3 5 3 5

Expected Output

Download

1 2 6 14 30 62 126 254 510 1022 2046

2 8 14 26 50 98

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