

Problem

Submissions

Leaderboard

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Editorial

Problem

We use the integers  $a$ ,  $b$ , and  $n$  to create the following series:  
$$(a + 2^0 \cdot b), (a + 2^0 \cdot b + 2^1 \cdot b), \dots, (a + 2^0 \cdot b + 2^1 \cdot b + \dots + 2^{n-1} \cdot b)$$
  
You are given  $q$  queries in the form of  $a$ ,  $b$ , and  $n$ . For each query, print the series corresponding to the given  $a$ ,  $b$ , and  $n$  values as a single line of  $n$  space-separated integers.

Input Format

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:  
1. We use  $a = 0$ ,  $b = 2$ , and  $n = 10$  to produce some series  $s_0, s_1, \dots, s_{n-1}$ .

Change Theme

Language

Java 7

Exit Full Screen View

```
1 import java.util.*;
2 import java.io.*;
3 class Solution{
4     public static void main(String []argh){
5         Scanner in = new Scanner(System.in);
6         int sum = 0;
7         int t=in.nextInt();
8         for(int i=0;i<t;i++){
9             int a = in.nextInt();
10            int b = in.nextInt();
11            int n = in.nextInt();
12            if( (n>=1&&n<=15) && (a>=0&&a<=50) && (b>=0&&b<=50) ){
13                int j=0;
14                while(j<n){
15                    int s = (int)Math.pow(2,j)*b;
16                    sum = sum+s;
17                    int ss = sum+a;
18                    System.out.print(ss + " ");
19                    j++;
20                }
21                sum = 0;
22                int ss = 0;
23            }
24            System.out.println("");
25        }
26        in.close();
27    }
28 }
```

Upload Code as File

Test against custom input

Run Code

Submit Code

Line: 24 Col: 24

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You have earned 10.00 points!

You are now 25 points away from the 3rd star for your java badge.

17%

55/80

Congratulations

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

Next Challenge

Test case 0

Compiler Message

Success

Test case 1

Test case 2

Test case 3

Test case 4

Input (stdin)

Download

Expected Output

Download

```
1 2
2 0 2 10
3 5 3 5
```

```
1 2 6 14 30 62 126 254 510 1022 2046
2 8 14 26 50 98
```