

Problem

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Java Loops II | HackerRank

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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:

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


Line: 12 Col: 13

Upload Code as File

☐ Test against custom input

Run Code

Submit Code



You have earned 10.00 points!

You are now 2 points away from the 2nd star for your java badge.

92%

48/50

Congratulations

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#)

Next Challenge

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Compiler Message

Success

Input (stdin)

1	2
2	0 2 10
3	5 3 5

Expected Output

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

ENG IN

10:04 AM

2/13/2023

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