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Dashboard > Java > Introduction > Java Loops II

Java Loops II



Problem

Submissions

Leaderboard

Discussions

Editorial

We use the integers a_i , b_i , and n to create the following series:

$$(a+2^0 \cdot b), (a+2^0 \cdot b+2^1 \cdot b), \ldots, (a+2^0 \cdot b+2^1 \cdot b+\ldots+2^{n-1} \cdot b)$$

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 nspace-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

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

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

0 2 10 5 3 5

Sample Output

Explanation

We have two queries:

- 1. We use a=0, b=2, and n=10 to produce some series s_0,s_1,\ldots,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.

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2. We use a=5, b=3, and n=5 to produce some series s_0, s_1, \ldots, s_{n-1}:

• s_0=5+1\cdot 3=8

• s_1=5+1\cdot 3+2\cdot 3=14

• s_2=5+1\cdot 3+2\cdot 3+4\cdot 3=26

• s_3=5+1\cdot 3+2\cdot 3+4\cdot 3+8\cdot 3=50

• s_4=5+1\cdot 3+2\cdot 3+4\cdot 3+8\cdot 3+16\cdot 3=98

We then print each element of our series as a single line of space-separated values.
```

f in Submissions:<u>96439</u> Max Score:10 Difficulty: Easy Rate This Challenge: ☆☆☆☆☆



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