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Java Loops II ★

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Rank: 644712 | Points: 58/80

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We use the integers a, b, and n to create the following series:

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

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 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

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

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

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, \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.

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.
```

```
Change Theme Language | Java 7
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                                                                                     60
      import java.util.*;
     import java.io.*;
     class Solution{
         public static void main(String []argh){
             Scanner in = new Scanner(System.in);
             int t=in.nextInt();
             for(int i=0;i<t;i++){</pre>
                 int a = in.nextInt();
                 int b = in.nextInt();
                 int n = in.nextInt();
                 int sum = a;
                 for (int j = 0; j < n; j + +) {
                     int nextEle = (int)Math.pow(2, j)*b;
                     sum = sum + nextEle;
                     System.out.printf("%s ",sum);
                 if (i < t-1) {
                     System.out.print("\n");
             in.close();
         }
26 }
```

Line: 27 Col: 1

↑ UploadCodeasFile Test against custom input Run Code Submit 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

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