

hackerank.com/challenges/java-loops/problem?isFullScreen=true

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Problem

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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:

1. We use  $a = 0$ ,  $b = 2$  and  $n = 10$  to produce some series  $2, 6, 14, \dots$ .

Change Theme

Language

Java 7

⌵

⌵

```
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                 System.out.println("");
24             }
25             in.close();
26         }
27     }
28 }
```

Line: 28 Col: 2

Upload Code as File

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Run Code

Submit Code

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0 2 10
5 3 5
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```
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 values...

```
24
25
26
27
28
}
System.out.println("");
}
in.close();
}
```

Line: 28 Col: 2

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Run Code

Submit Code

**Congratulations!**  
You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Sample Test case 0

Sample Test case 1

Input (stdin)

Download

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

Your Output (stdout)

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

Expected Output

Download

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

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

Line: 28 Col: 2

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?

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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