Java Loops

Problem Statement

In this problem you will test your knowledge of Java loops. Given three integers a, b, and n, output the following series:

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

Input Format

The first line will contain the number of integers, t. Each of the next t lines will have three integers, a, b, and n.

Constraints:

$0 \le a, b \le 50$
$1 \le n \le 15$

Output Format

Print the answer to each test case in seperate lines.

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

In the first case:

```
1st term=0+1*2=2
2nd term=0+1*2+2*2=6
3rd term=0+1*2+2*2+4*2=14
```

and so on.