## Java Loops II

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

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

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
53 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.

