1. Generate the following patterns

```
      *
    * * *
  * * * * *
* * * * * * *
```

```
*
* *
* * *
* * * *
```

2.

```
*           *
* *       * *
* * *   * * *
* * * * * * * *
```

3. Create a function that generates the following pattern when the given N values are as follows

N = 2

```
#  #
#  #
```

N = 3

```
## ## ##
## ## ##
```

N = 4

```
### ### ### ###
### ### ### ###
```

4. Create a function that generates the following pattern when the given h values are as follows

a) H = 3

```
    1
  1 2 1
1 2 3 2 1
```

b) H = 3

```
    1
  1 2 1
1 2 3 2 1
  1 2 1
    1
```

c) H = 3(assume always odd number is given)

```
 ##   ##   ##
   ##   ##
 ##   ##   ##
   ##   ##
 ##   ##   ##
```

5.

a

```
A -> 1

B -> 2
C -> 3
...
Z -> 26
AA -> 27
AB -> 28
...


Input: columnNumber = 28

Output: "AB"
```

b

Example :

```
Input: col = "AB"
Output: 28
```

6.

Given an integer array, move all 0's to the end

maintaining the order of the other elements.

Example 1:

```
Input: nums = [0,1,0,3,12]
Output: [1,3,12,0,0]
```

7.

Given a Roman number, change to its corresponding integer value

Symbol	Value
I	1
V	5
X	10
L	50
C	100
D	500
M	1000

Example :

```
Input: s = "LVIII"

Output: 58

Explanation: L = 50, V= 5, III = 3.
```