

**We will be studying the following **patterns** after completing the chapter on Functions.**

**Please feel free to try them on your own!**

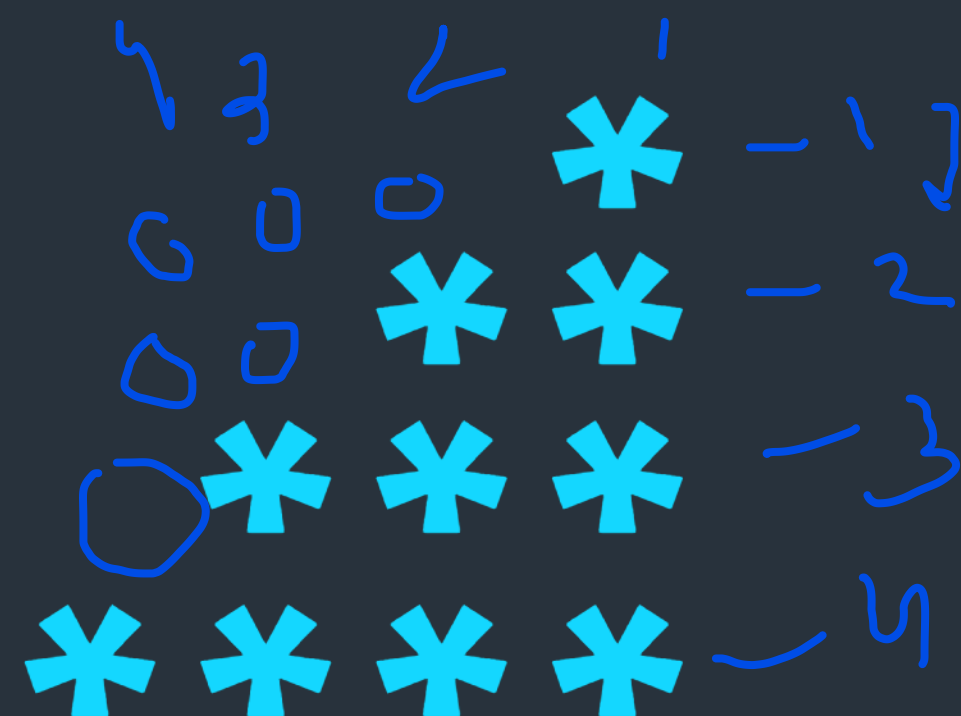
# HOLLOW RECTANGLE pattern

1 2 3 4 5  
1 \* \* \* \* \*  
2 \* \* \* \* \*  
3 \* \* \* \* \*  
4 \* \* \* \* \*

for (i=1; i<=h; i++)

APNA  
COLLEGE

# INVERTED & ROTATED HALF-PYRAMID pattern



APNA  
COLLEGE

# INVERTED HALF-PYRAMID with Numbers pattern

```
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
```

APNA  
COLLEGE

# FLOYD'S Triangle pattern

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
```

APNA  
COLLEGE

## 0-1 Triangle pattern

1  
0 1  
1 0 1  
0 1 0 1  
1 0 1 0 1

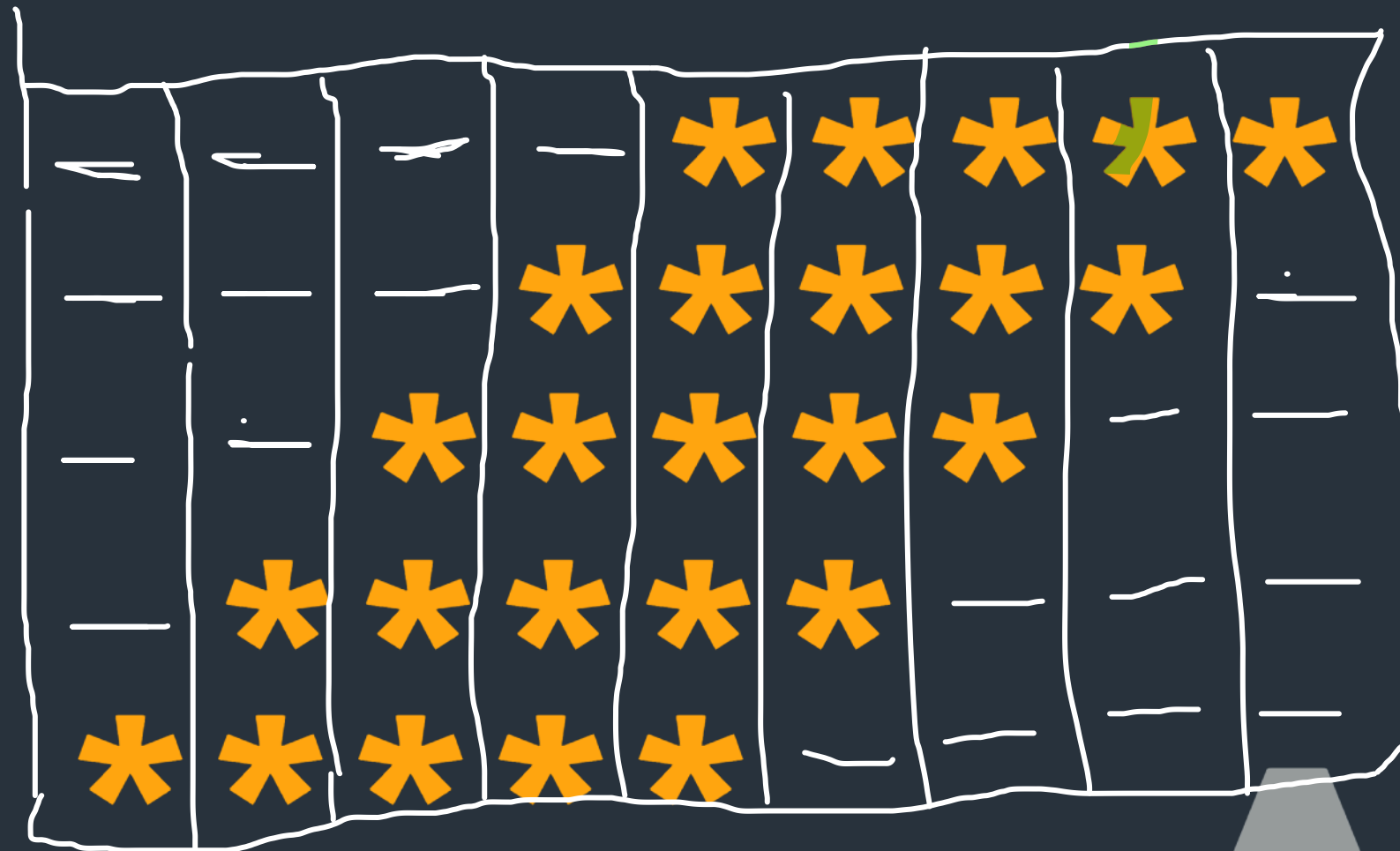
APNA  
COLLEGE

# BUTTERFLY pattern



APNA  
COLLEGE

## SOLID RHOMBUS pattern



APNA  
COLLEGE

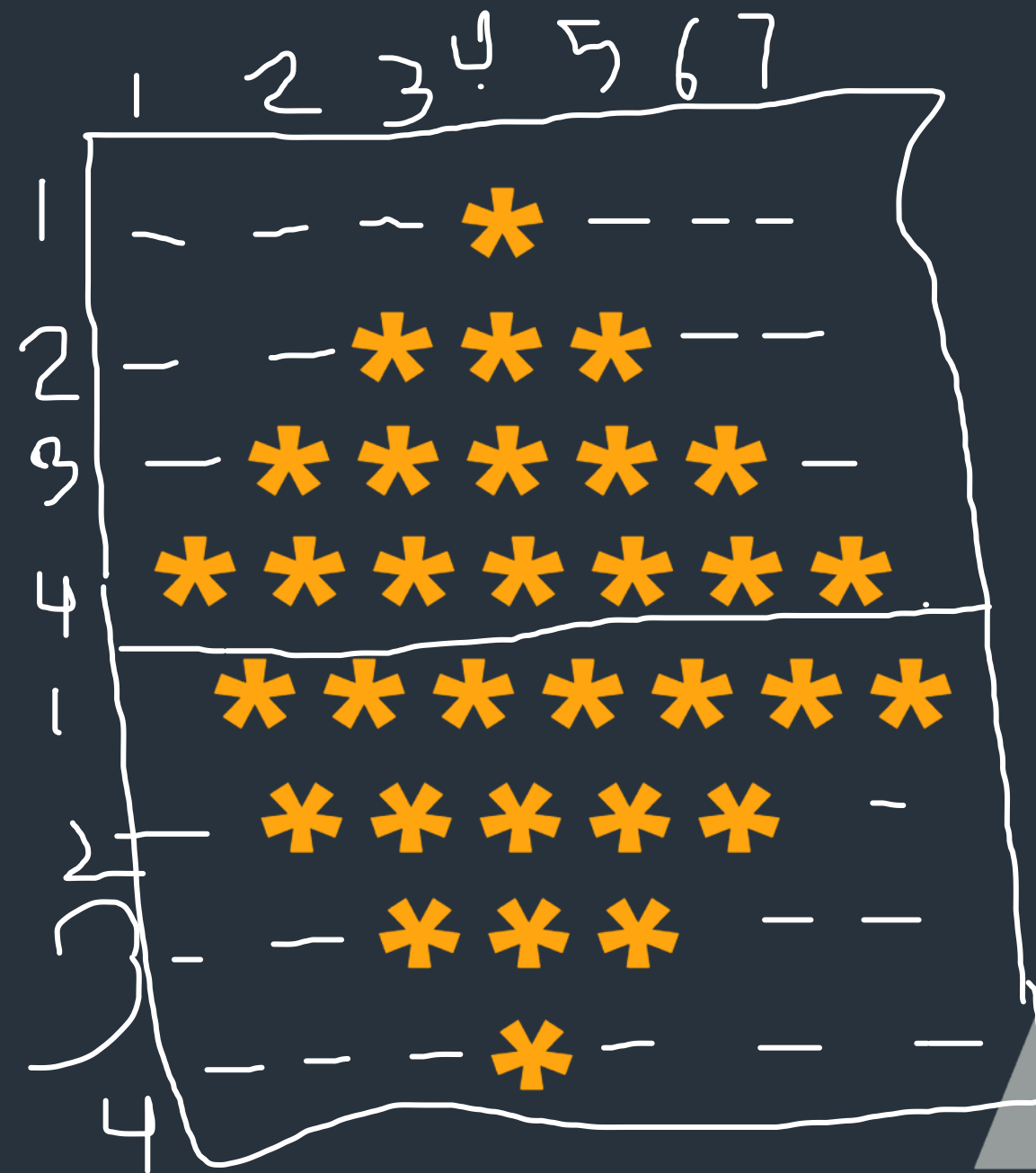


# HOLLOW RHOMBUS pattern



APNA  
COLLEGE

## DIAMOND pattern



APNA  
COLLEGE

# NUMBER PYRAMID pattern

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

APNA  
COLLEGE

# PALINDROMIC Pattern with Numbers pattern

```
      1
     2 1 2
    3 2 1 2 3
   4 3 2 1 2 3 4
  5 4 3 2 1 2 3 4 5
```

APNA  
COLLEGE