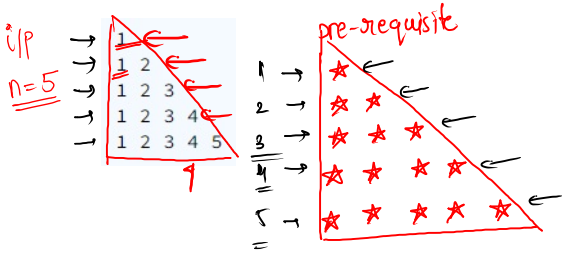
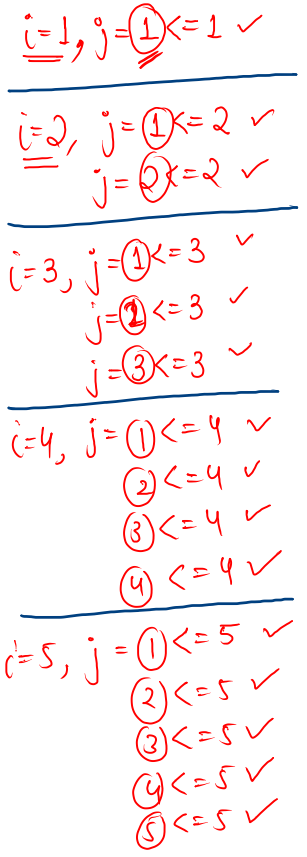
HW_GKSTR17 Pattern_2






```
for (int i = 1; i <= n; i++) {
    for (int j = 1; j <= i; j++) {
        System.out.print(j + " ");
    }
    System.out.println();
}
```

Pattern 6 - Right triangle of 5 multiples

i/p

n= 6

```
5
5    10
5    10    15
5    10    15    20
5    10    15    20    25
5    10    15    20    25    30
```

multiply by 5

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

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();

    for (int i = 1; i <= n; i++) {
        for (int j = 1; j <= i; j++) {
            System.out.print(j * 5 + "\t");
        }
        System.out.println();
    }
}
```

Pattern 7 - Print a hollow m by n star rectangle.

Sample Input 0

```
5
4
```

Sample Output 0

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

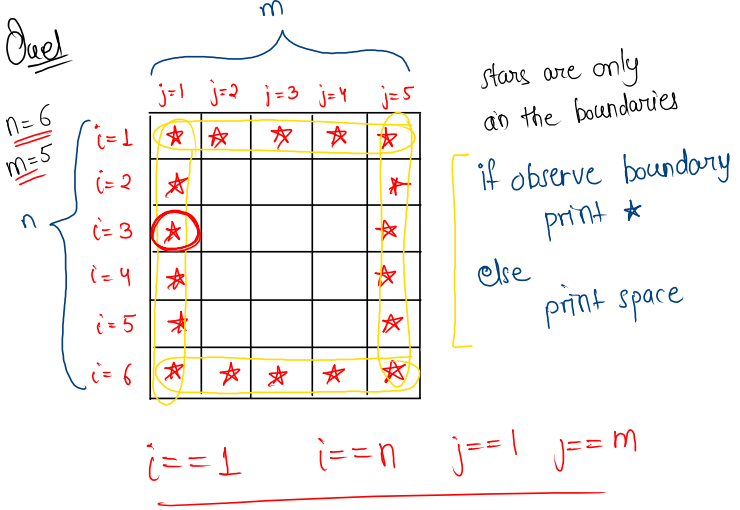
Sample Input 1

```
7
8
```

Sample Output 1

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

Quel




```
for (int i = 1; i <= n; i++) {  // rows
    for (int j = 1; j <= m; j++) {  // cols
        if (i == 1 || i == n || j == 1 || j == m) {
            System.out.print("*");
        } else {
            System.out.print(" ");
        }
    }
    System.out.println();
}
```

Quel

HW_Pattern 8 - Print a hollow square without top

Sample Input 0

```
5
```

Sample Output 0

Sample Input 1

```
7
```

Sample Output 1

Sample Input 2

```
3
```

Sample Output 2

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

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();  // rows and cols

    for (int i = 1; i <= n; i++) {  // rows
        for (int j = 1; j <= n; j++) {  // cols
            if (i == n || j == 1 || j == n) {
                System.out.print("*");
            } else {
                System.out.print(" ");
            }
        }
        System.out.println();
    }
}
```

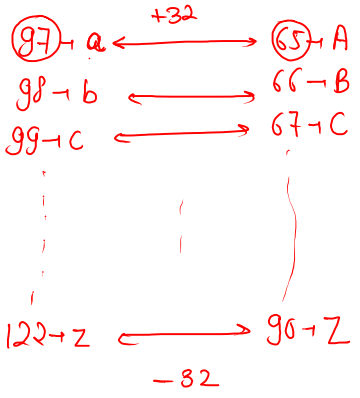
Quel

HW_Print a, C, e, G, i, K... till 'z' or 'Z'

```
int turn = 1;
for (int i = 97; i <= 122; i+=2) {
    char ch = (char)i;
    if (turn % 2 == 0) {
        ch = Character.toUpperCase(ch);
    }
    turn++;
    System.out.println(ch);
}
```

or

```
int turn = 1;
for (int i = 97; i <= 122; i+=2) {
    char ch = (char)i;
    if (turn % 2 == 0) {
        ch = (char)(i - 32);
    }
    turn++;
    System.out.println(ch);
}
```



Print n/3

```
Scanner scn = new Scanner(System.in);
int n = scn.nextInt();

while ( n > 0 ) {
    System.out.print(n + " ");
    n = n / 3;
}
```