

## SHEET 2

<p>DIAMOND INSIDE A RECTANGLE</p> <p>Input: N=5</p> <pre> * * * * * * * * *   * * * * * * *     * * * * * * *       * * * * *         * * *           * *           * * *         * * * * *       * * * * * * *     * * * * * * * * * </pre>	<p>Input: N = 4</p> <pre> 4 4 4 4 4 4 4 4 3 3 3 3 3 4 4 3 2 2 2 3 4 4 3 2 1 2 3 4 4 3 2 2 2 3 4 4 3 3 3 3 3 4 4 4 4 4 4 4 4 </pre>
<p>PASCAL TRIANGLE</p> <p>Input: n=7</p> <pre> 1 1 1 1 2 1 1 3 3 1 1 4 6 4 1 1 5 10 10 5 1 1 6 15 20 15 6 1 </pre>	<p>DIAGONAL AND SIDES OF RECTANGLE (INPUT IS IN ODD NUMBERS ONLY)</p> <p>Input:</p> <pre> ***** **      ** * * * * *   *   * * * * * **      ** ***** </pre>
<p>Input : n = 3</p> <pre> 1*2*3*10*11*12 --4*5*8*9 ----6*7 </pre> <p>Input : n = 4</p> <pre> 1*2*3*4*17*18*19*20 --5*6*7*14*15*16 ----8*9*12*13 -----10*11 </pre>	<p>Input: 7</p> <pre> 1 8 2 14 9 3 19 15 10 4 23 20 16 11 5 26 24 21 17 12 6 28 27 25 22 18 13 7 </pre>
<p>Input : 8</p> <pre> 7 6 5 4 3 2 1 0 6 5 4 3 2 1 0 5 4 3 2 1 0 4 3 2 1 0 3 2 1 0 2 1 0 1 0 0 </pre>	<p>Input:5</p> <pre> 1 11 101 1001 11111 </pre>

Input : 5

Output:

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

Input:

Enter a Character between A to Z : F

```

  A
 B B
C C
D D
E E
F F
E E
D D
C C
 B B
  A
```