<u>Competitive Coding – Patterns & Series – Level 2</u>

1. WAP to print following pattern

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3. WAP to print the trapezoid pattern

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If N = 2

1*2*5*6

3*4

If N = 4

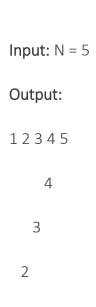
1*2*3*4*17*18*19*20

5*6*7*14*15*16

8*9*12*13

10*11
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If N = 5
1*2*3*4*5*26*27*28*29*30
  6*7*8*9*22*23*24*25
    10*11*12*19*20*21
        13*14*17*18
           15*16
4. WAP to print 2*N Number of rows for input pattern
3
44
555
6666
555
44
3
5. Find the nth term of the series 1,1,2,3,4,9,8,27,16,81,32,243,...
6. WAP to print the given H Pattern
Given an integer N, the task is to print the Alphabet H Pattern as given below:
Input: N = 3
Output:
1 3
2 2
321
2 2
1 3
7. WAP to print given Z pattern
```





N N

8. Given an integer N as input, the task is to print the Magical Pattern as given below:

N..32123..N

9. WAP to find nth term of the series 5, 2, 19, 13, 41, ...

Input: N = 4

Output:13

Input: N = 15

Output:272

10. WAP to find nth term of the series 1, 4, 15, 24, 45, 60, 91, 112, 153...

