1. (Easy) Left Triangle	
*	
**	

****	•
Hint: 1 loop for rows, 1 for printing * from 1 to i	
2. (Easy) Right Triangle	
	*
*	*
**	*
***	*
****	,
Hint: First print n-i spaces then i stars	
3. (Easy) Square	
****	;
****	•

Hint: 2 nested loops for rows and columns	
4. (Easy) Hollow Square	
****	•
* *	
* *	
* *	

Hint: Print * only on borders

5. (Easy) Half Pyramid Numbers

1	
12	
123	
1234	
12345	

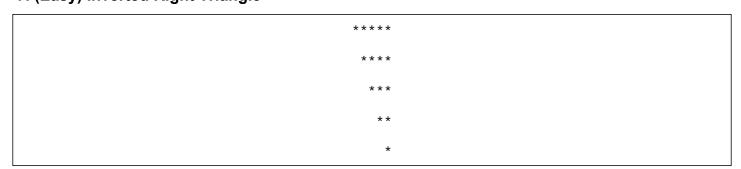
Hint: Numbers from 1 to i in each row

6. (Easy) Inverted Left Triangle

**
*

Hint: Outer loop i=n to 1, inner j=1 to i

7. (Easy) Inverted Right Triangle



Hint: Print i stars after n-i spaces

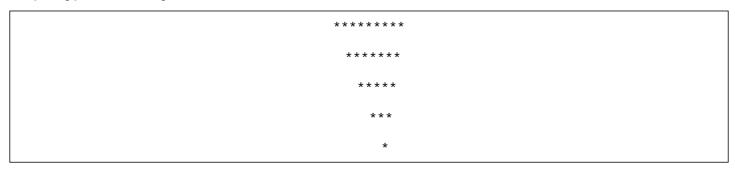
8. (Easy) Pyramid Star





Hint: Space = n-i, Star = 2*i-1

9. (Easy) Inverted Pyramid Star



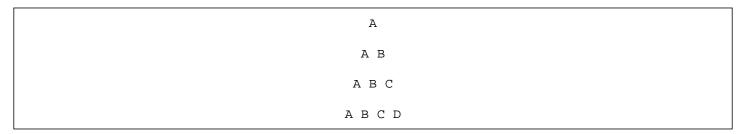
Hint: Space = i, Star = 2*(n-i)-1

10. (Easy) Floyd's Triangle

1 2 3 4 5 6 7 8 9 10

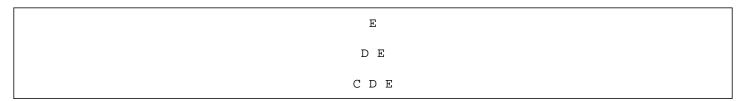
Hint: Continuous numbers row-wise

11. (Easy) Alphabet Triangle



Hint: Print chars from A to A+i-1

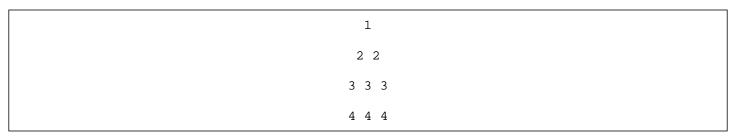
12. (Easy) Reverse Alphabet Triangle





Hint: Start from 'E' and decrease

13. (Easy) Constant Number Triangle



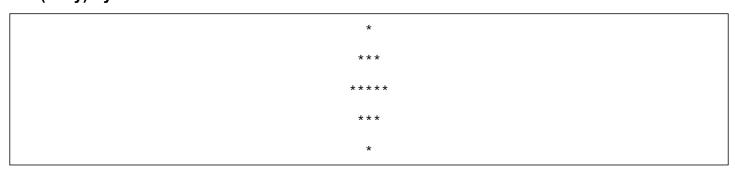
Hint: Same number in each row

14. (Easy) Repeated Alphabets

A
ВВ
ссс
D D D D

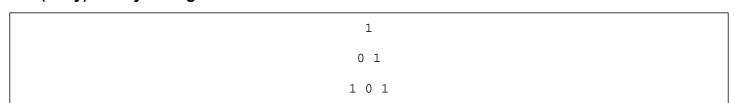
Hint: Same alphabet per row

15. (Easy) Symmetric Star



Hint: Triangle then inverted

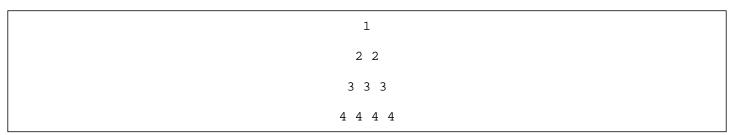
16. (Easy) Binary Triangle



0 1 0 1

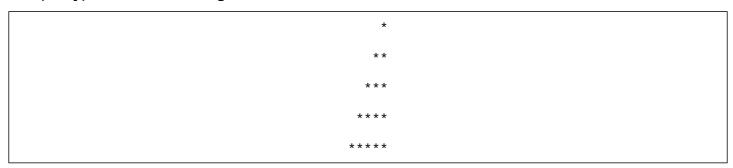
Hint: Flip between 0 and 1

17. (Easy) Incrementing Triangle



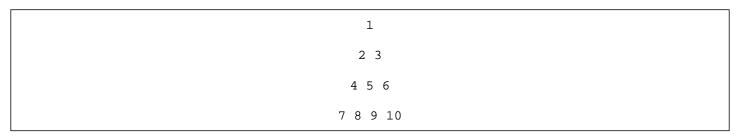
Hint: i times i in each row

18. (Easy) Mirror Half Triangle



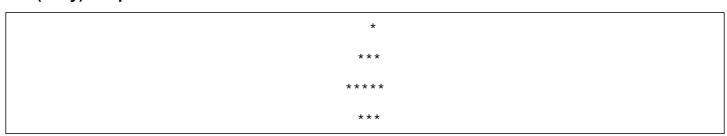
Hint: Use spaces + stars

19. (Easy) Triangular Number Block



Hint: Incrementing numbers row-wise

20. (Easy) Simple Diamond



	*	
Hint: Pyramid + Inverted pyramid		
21. (Medium) Hollow Right Trian	gle	
	*	
	* *	
	* *	
	* *	

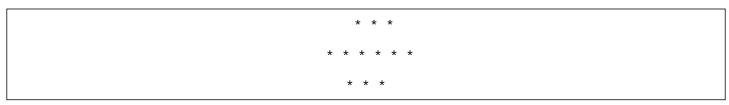
Hint: Star only at borders		
, man out only at torsion		
22. (Medium) Hollow Pyramid		
	*	
	* *	
	* *	
	* *	

Hint: Star at start and end		
Time. Oldr at Start and Ond		
23. (Medium) Number Pyramid		
	1	
	222	
	33333	
	444444	
	55555555	
Lint: i rangatad 2*i 1 timas		
Hint: i repeated 2*i-1 times		
24. (Medium) Palindrome Triang	e	
. ,	1	
	121	

12321	
1234321	

Hint: First increasing then decreasing

25. (Medium) Zig-Zag Pattern



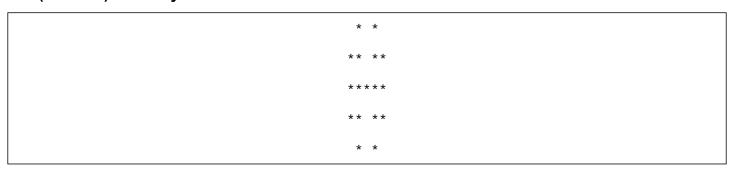
Hint: Based on (i+j)%4==0 or i==2 and j%2==0

26. (Medium) Hollow Diamond

*
* *
* *
* *
*

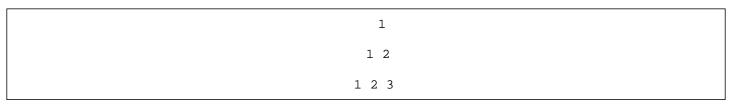
Hint: Star at borders, space inside

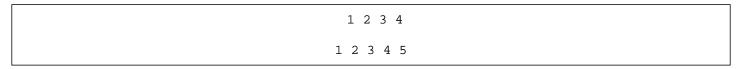
27. (Medium) Butterfly Pattern



Hint: Opposite triangles with middle space

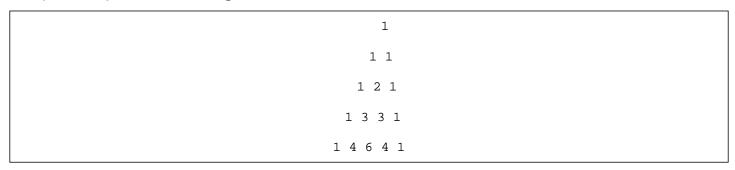
28. (Medium) Right Number Pyramid





Hint: Space + 1 to i numbers

29. (Medium) Pascal's Triangle



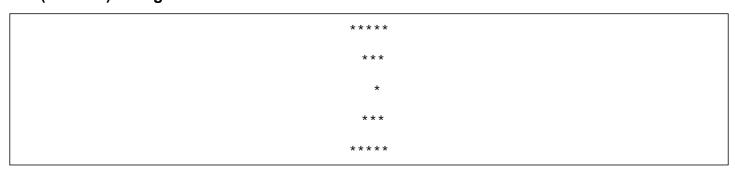
Hint: Use combinations formula

30. (Medium) Alphabet Palindrome

A	
ABA	
ABCBA	

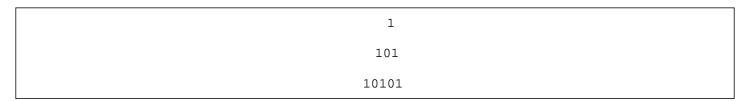
Hint: Increment then decrement chars

31. (Medium) Hourglass



Hint: Inverted then normal

32. (Medium) Centered Binary Triangle



	1010101
1	01010101

Hint: Flip 0 and 1 in each row

33. (Medium) Incremental Alphabets

АВС
DEF
G H I

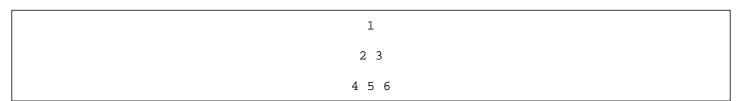
Hint: Chars continue across rows

34. (Medium) Downward Floyd

15 14 13
12 11 10
9 8 7

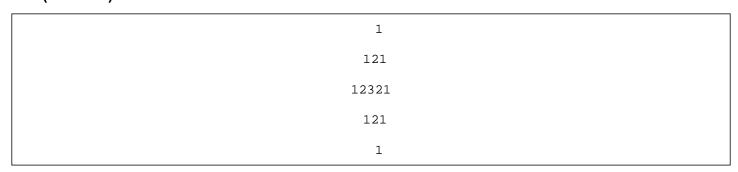
Hint: Reverse floyd's triangle

35. (Medium) Triangle of Sums



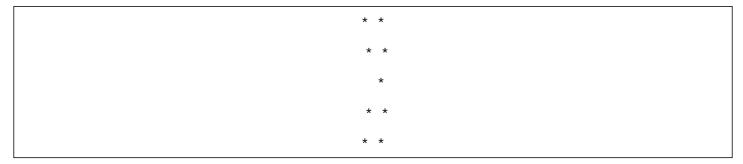
Hint: Numbers increase row-wise

36. (Medium) Diamond of Numbers



Hint: Number pyramid + inverted

37. (Medium) Cross Pattern



Hint: i==j and i+j==n+1

38. (Medium) Wave Pattern

1 2 3
6 5 4
7 8 9

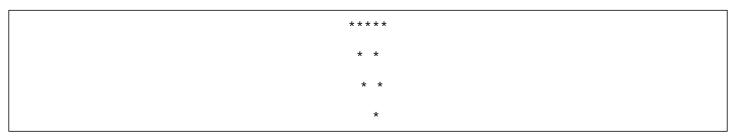
Hint: Alternate direction rows

39. (Medium) Alphabet Diamond

A
A B
A B C
A B
A

Hint: Mirrored alphabets

40. (Medium) Hollow Inverted Pyramid



Hint: Star at edges, space inside

41. (Hard) Concentric Rectangles

4444	4
4333	4
4323	4
4333	4
4444	4

Hint: min(row, col, n-row-1, n-col-1)

42. (Hard) Spiral Matrix

1 2 3
8 9 4
7 6 5

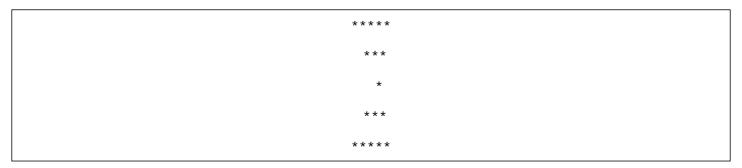
Hint: Use 4 pointers (top, bottom, left, right)

43. (Hard) Snake Pattern

1 2 3
6 5 4
7 8 9

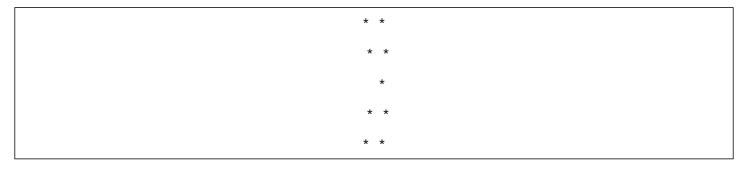
Hint: Even row reverse

44. (Hard) Sandglass Star



Hint: Inverted + regular triangle

45. (Hard) X-Star Pattern



Hint: Star at i==j and i+j==n-1

46. (Hard) Swastik Pattern



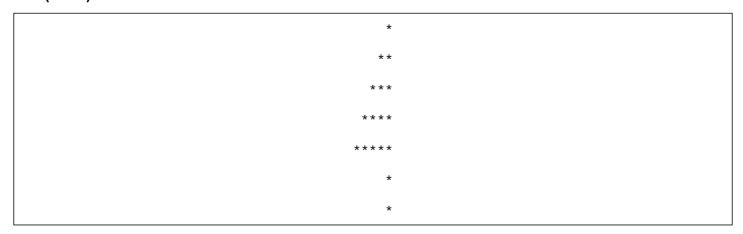
Hint: Borders + middle

47. (Hard) Number Pyramid

1 2 3 4 5 6 7 8 9 10

Hint: Number fill by levels

48. (Hard) Arrow Pattern



Hint: Triangle + line

49. (Hard) Hollow Butterfly



Hint: Star only at wings

50. (Hard) Triangle Center Number

1
212
32123

Hint: Decrease to 1, then increase