LOOP Practice Problems

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PROBLEM 1) Rectangle
Sample input:
4
Sample output
123456
123456
123456
123456
Hint: 4 and 6 means 4 lines of numbers having 1..6 in each line.
2) Triangle - Left Justified Draw right angled triangle of given height.
Sample input:
4
Sample output
* *
***
Hint: One loop for lines, another loop for printing i number of starts when it is
line i.
PROBLEM 3) Triangle - Left Justified. Draw right angled triangle of given height .
Sample input:
Sample output
12
123
1234
PROBLEM 4) Triangle - Right Justified. Draw right angled triangle of given height.
Sample input:
4
Sample output
```

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* *
Hint: Count and print appropriate number of spaces in front of stars. Notice that
there is one less space and one more star in each line.
PROBLEM 5) Triangle - Right Justified, Draw right angled triangle of given height.
Sample input:
Sample output
  12
 123
1234
6) Triangle - Isosceles . Draw triangle of given height .
Sample input 1:
3
Sample output 1:
 ***
****
Sample input 2:
Sample output 2:
  * * *
 ****
*****
PROBLEM 7) Triangle - Isosceles .Draw triangle of given height.
Sample input 1:
3
Sample output 1:
  1
 123
12345
Sample input 2:
Sample output 2:
```

```
1
  123
 12345
1234567
8) Rhombus .Just draw the image of the above triangle once. And then, the opposite, once.
Sample input:
Sample output
 ***
 * * *
PROBLEM 9) Rhombus. Just draw the image of the above triangle once. And then, the opposite, once.
Sample input:
3
Sample output
  1
 123
12345
 123
  1
PROBLEM 10) Hollow Rectangle . Display a rectangle of given length and width.
Sample input:
4
5
Sample output
```

Hint 1: Print the character space ('') in the middle.

Hint 2: You can re-use your solution to PROBLEM 2 and use if condition to selectively print first and last star of each line and all stars of first and last line.

PROBLEM 11) Hollow Rectangle . Display a rectangle of given length and width.

Sample input:

4 5

Sample output

12345

1 5

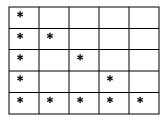
1 5

12345

PROBLEM 12) Triangle - Left Justified Draw right angled triangle of given

height Sample input: 5

Sample output



PROBLEM 13) Hollow Triangle - Left Justified. Draw right angled triangle of given height.

Sample input: 5

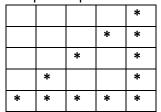
Sample output

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

PROBLEM 14) Hollow Triangle Draw right angled triangle of given

height Sample input: 5

Sample output



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PROBLEM 15) Hollow Triangle – Isosceles. Draw triangle of given height.
Sample input 1:
Sample output 1:
  1
 1 3
12345
Sample input 2:
Sample output 2:
    1
  1 3
 1
      5
1234567
16)
       Rhombus
Just draw the image of the above triangle once. And then, the opposite, once. Sample input: 3
Sample output
  1
 1 3
     5
 1 3
  1
PROBLEM 17) Palindrome Sample input: 5
Sample output
123454321
PROBLEM18) Palindromic Triangle Sample input: 5
Sample output
     1
    121
  12321
 1234321
```

123454321