

for, while, do while,

if else, maths

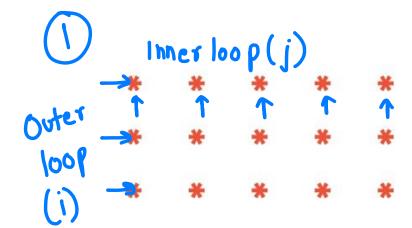
Pattern Printing

- Viraj Chandra

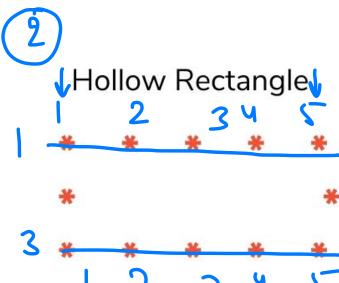
$$N = row$$

 $M = col$



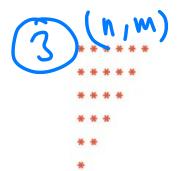


Solid Rectangle











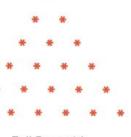
Half Pyramid

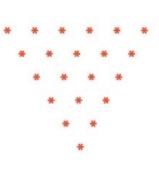
Inverted Half Pyramid

Hollow Inverted Half Pyramid



$$n = 6$$







Full Pyramid

Inverted Full Pyramid

Hollow Full Pyramid

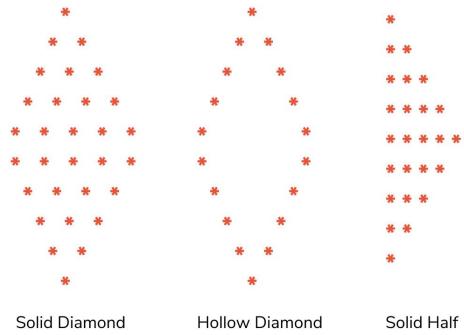
Inverted
$$\frac{1}{2}$$
 $\frac{1}{2}$ $\frac{1}{$

Made with Goodnotes

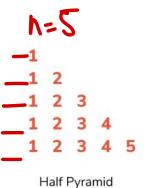
$$i = 1$$
 $\rightarrow j = 1 + 0 = 6$
 $i = 2 \rightarrow j = 2 + 0 = 6$
 $i = 3 \rightarrow j = 3 + 0 = 6$
 $i = 3 \rightarrow j = 3 + 0 = 6$
 $i = 3 \rightarrow j = 3 + 0 = 6$
 $i = 3 \rightarrow j = 3 + 0 = 6$

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Diamond

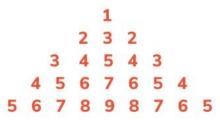


3

3



Inverted Half Pyramid Hollow Half Pyramid



4 5



Full Pyramid

Hollow Full Pyramid

Hollow Inverted Half Pyramid

Made with Goodnotes



*

Pascal's Triangle (Important)



```
11
121
1331
14641
15101051
1615201561
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