

→ Home work Question Link

0 1 1 2 3 5 8 13 21

$a+b=c$

$c = a+b$

$a = b$

$b = c$

$a = 0 + 1$

$b = 1 + 2$

$c = 1 + 2$

`int a = 0, b = 1`

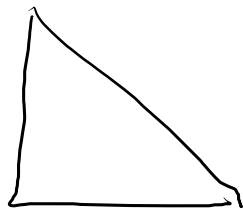
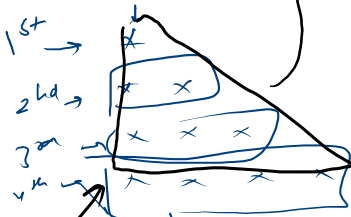
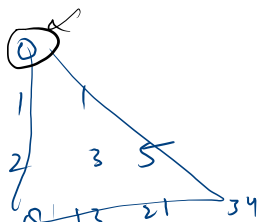
`for (int i = 1; i <= n; i++)`

`{`

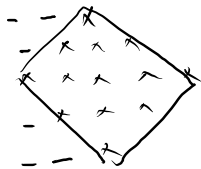
`for (int j = 1; j <= i; j++)`

`{`
`System.out.print(a + " ");`
`c = a + b; a = b; b = c;`

`}`
`System.out.println();`
`}`



5
2



row	nst	nsp
0	1) 12	2) -1
1	3) +2	1) -1
2	5) +2	0) +1
3	3) -2	1) +1
4	1) -2	2)

$$nst = 1, nsp = \frac{n}{2}$$

for (int i = 0; i < n; i++) {

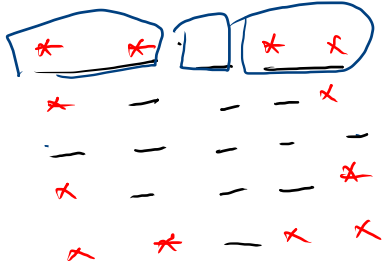
for (int j = 1; j <= nsp; j++)
 _____ x _____ spaces

for (int k = 1; k <= nst; k++)
 _____ x _____ stars

if (i == $\frac{n}{2}$)
 nst += 2
 nsp -= 1
 else
 nst -= 2
 nsp += 1

System.out.println();

}



row	net1	map	net2
0	2 } -1	1 } +2	2 } -1
1	1 } -1	3 } +2	1 } -1
2	0 } -1	5 } +2	0 } -1
3	1 } +1	3 } -2	1 } +1
4	2 } +1	1 } -2	2 } +1

```

for (int i=0; i<n; i++)
{
    for (int j=1; j<=net1; j++)
        stars
    for (int j=1; j<=nsp; j++)
        spaces
    for (int j=1; j<=net2; j++)
        stars
}

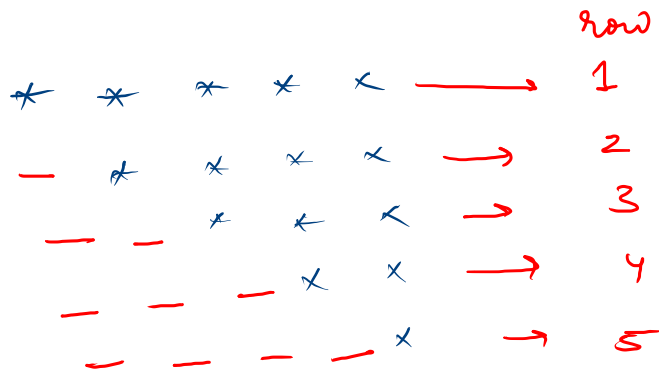
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if (i <= n/2) → net1 -= 1
 → net2 -= 1
 → nsp += 2

else → net1 += 1
 → net2 += 1
 → nsp -= 2

syso (i);

n = 5



row	col
0	5
1	4
2	3
3	2
4	1

row = 0, col = n;
 for (int i = 1; i <= n; i++)

{
 for (int j = 1; j <= row; j++)
 spaces

for (int j = 1; j <= col; j++)
 stars

row++
 col--

System.out.println();

}

n=5

					row	usp	ust
-	-	-	-	*	1	4	1
-	-	-	*	*	2	3	2
-	-	*	*	*	3	2	3
-	*	*	*	*	4	1	4
*	*	*	*	*	5	0	5

usp = n-1, ust = 1

for (int i=1; i<=n; i++)

{
for (int j=1; j<=usp; j++)
 spaces

for (int j=1; j<=ust; j++)
 stars

usp = ust;

ust = ust + 1;

 line(i);

Till pattern - 09