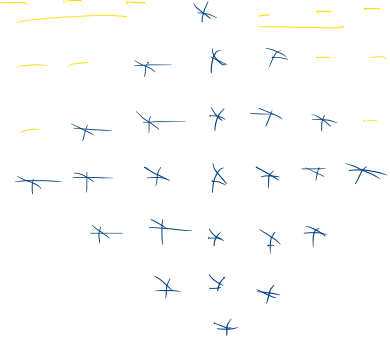


3-9

1 2 3



Symmetric

	LHS	nsp ₁	nst	nsp ₂	RHS		
1	-	-	*	-	-	1	2
2	-	*	*	*	-	3	1
3	*	*	*	*	*	5	0 ↔ n/2
4	-	*	*	*	-	3	1
5	-	-	*	-	-	1	2

n=5

nsp_{ace}

nsp_{ace} 1
↳ n/2
= 2

nst_{row} = 1
= 1

inc | dec

nst += 2

row ≤ n/2
 ↳ nst1 --
 ↳ nst += 2

row > n/2
 ↳ nst2 --

nst1 ++, nst2 ++

nst --

Spans → stars

$$n_{st} = +2 \ 8 \ 8 \ 1$$

$$n_{sp} = n/2 = \lfloor \frac{5}{2} \rfloor = 2 \ 1 \ 0 \ 1 \ 2$$

1 — — *

2 — * * *

3 → * * * *

4 → — * * *

5 → — — *

7 *

word

T - $O(n^2)$

S - $O(1)$

```

int nst = 1;
int nsp = n/2;
for (int row = 1; row <= n; row++) {
    for (int sp = 1; sp <= nsp; sp++) {
        System.out.print("\t");
    }
    for (int st = 1; st <= nst; st++) {
        System.out.print("*\t");
    }
    if (row <= n / 2) {
        nsp--;
        nst += 2;
    } else {
        nsp++;
        nst -= 2;
    }
    System.out.println();
}

```

3-5
1-1

① → * * *

② → * *

③ → *

④ → * *

⑤ → * * *

9-6

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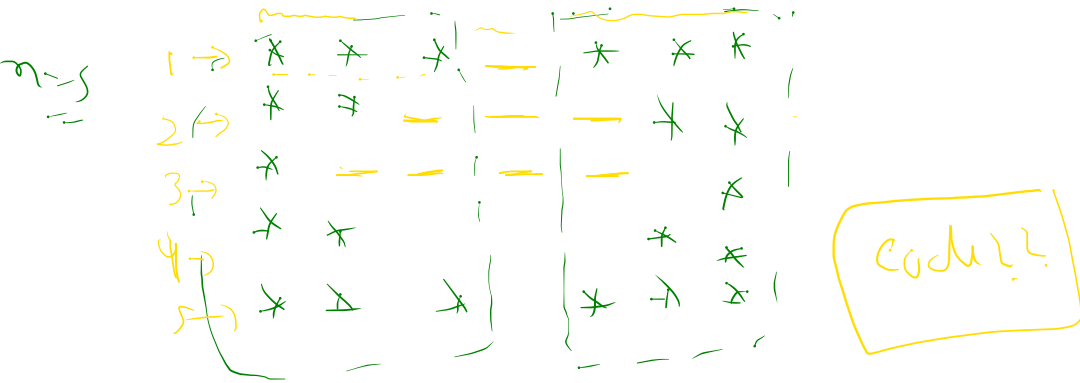
* *

$nsP_1, nsP_2, nsP_3 \dots$
 $nst_1, nst_2, nst_3 \dots$

nsP_1, nsP_2

SP_1, SP_2

st_1, st_2



$$n_{st} = \frac{n}{2} + 1$$

$$n_{sp} = 1$$

$$\text{row} \leq n/2$$

$$\rightarrow n_{st} --$$

$$n_{sp} += 2$$

$$\text{row} > n/2$$

$$\rightarrow n_{st} ++; n_{sp} = 2$$

Start \rightarrow Space \rightarrow Start

Questions (100)



no. of ques

60

70

80

90

100

40

30

20

10

0

Code

$n=5$
—

*

*

*

*

*

$n=6$

*

*

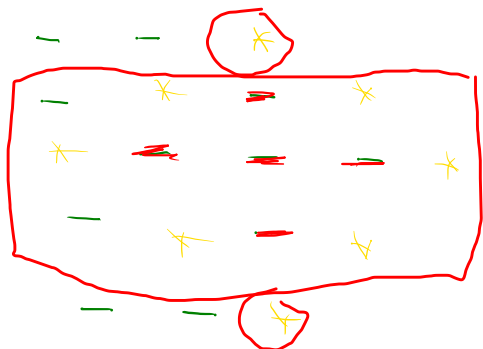
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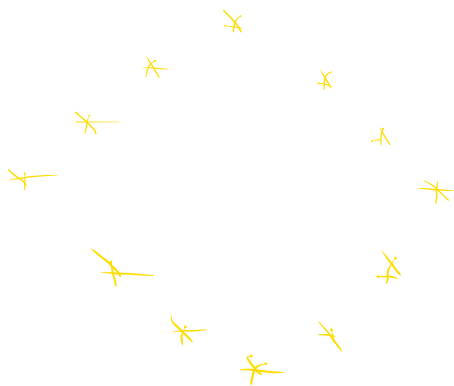
*

*

$n=5$



$n=7$



$n=9$

$$nOS = n/2 \quad \checkmark$$

$$nIS = 0 \quad \times$$

$$nst = 1 \quad \checkmark$$

main dx

\rightarrow

$$if (row == -1 \ \&\& \ n)$$

$$\rightarrow stn = 1$$

also

$$stn = 2$$



\rightarrow



\rightarrow



\rightarrow OutSpace

stn

in
Space