

$n = 5$
 $nst = 1, 2, 3, 4, 5, 6$
 $nsp = 4, 3, 2, 1, 0, 1$
 $r = 1, 2, 3, 4, 5, 6$

n	nsp	nst
5	4	1
6	5	1
7	6	1

```

- - - - *
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- - * * *
- * * * *
* * * * *

```

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- - - - *
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- * * * *
* * * * *

```

```

public static void pattern(int n) {
    int nsp = n - 1, nst = 1; // nst : no of star, nsp : no of space

    for (int r = 1; r <= n; r++) {
        for (int csp = 1; csp <= nsp; csp++) { // count of space
            System.out.print(s: " ");
        }

        for (int cst = 1; cst <= nst; cst++) {
            System.out.print(s: "* ");
        }

        nsp--;
        nst++;
    }
}

```

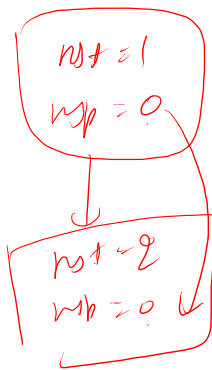
⑥ always look for first row.

- ① (space) (star) ...
- ② (nst, nsp) in terms of n
- ③ write loop for nsp, nst
- ④ kitni baar karooge yeksaam
- ⑤ relation in b/w row and col

n	nst	nsp
6	6	0
7	7	0
12	12	0

(1) $x \ x \ x \ x \ x \ x$
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$nst = n$
 $nsp = 0$
 \downarrow
 $nst--$
 $nsp++$



(2) x
 $x \ x$
 $x \ x \ x$
 $x \ x \ x \ x$
 $x \ x \ x \ x \ x$

$nst = n$

(1) $x \ x \ x \ x \ x$
 $x \ x \ x \ x$
 $x \ x \ x$
 $x \ x$
 x

$n = 4$
 $[nst = 1, nsp = 2n - 2]$

```

x - - - - x
x x - - - x
x x x - - x
x x x x x

```

$nst1 = 1$
 $nsp1 = n - 1$
 $nst2 = n - 1$
 $nsp2 = 1$

n	nst	nsp
4	1	6
5	1	8
6	1	10
7	1	12

(5) 1
 $1 \ 2$
 $1 \ 2 \ 3$
 $1 \ 2 \ 3 \ 4$
 $1 \ 2 \ 3 \ 4 \ 5$

```

  x
 x x
x x x
x x x x
x x x x x

```

- ① print skeleton
- ② ki baar hangul

(6) 1
 $2 \ 3$
 $4 \ 5 \ 6$
 $7 \ 8 \ 9 \ 10$

