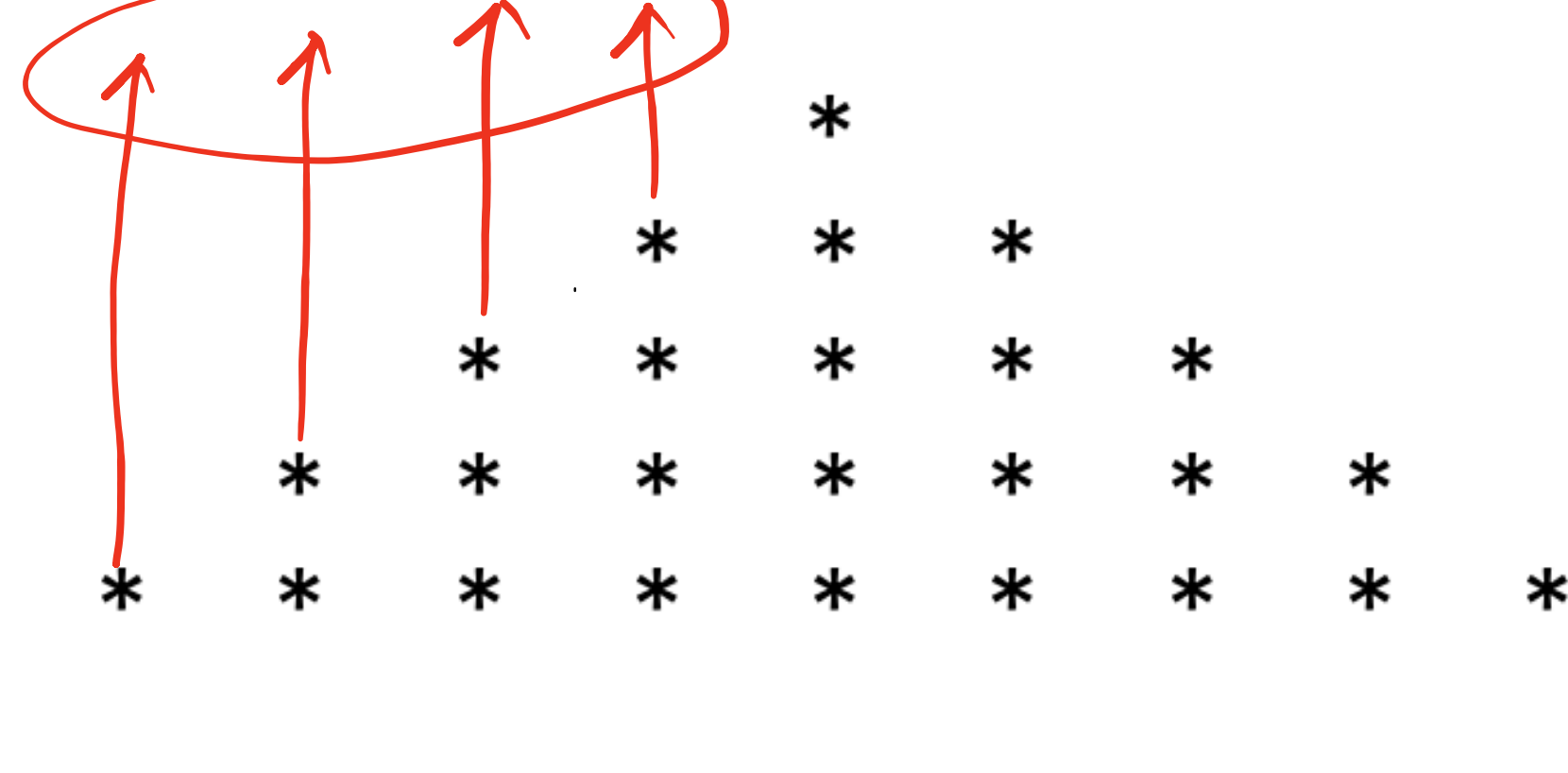


Ques 9:

n = 5



Row = 1 to N → 5    Space = n-1    Star = 1

While (Row ≤ n) {

1) Space =

2) Star =

3) next line prob

4) S++

5) Row++

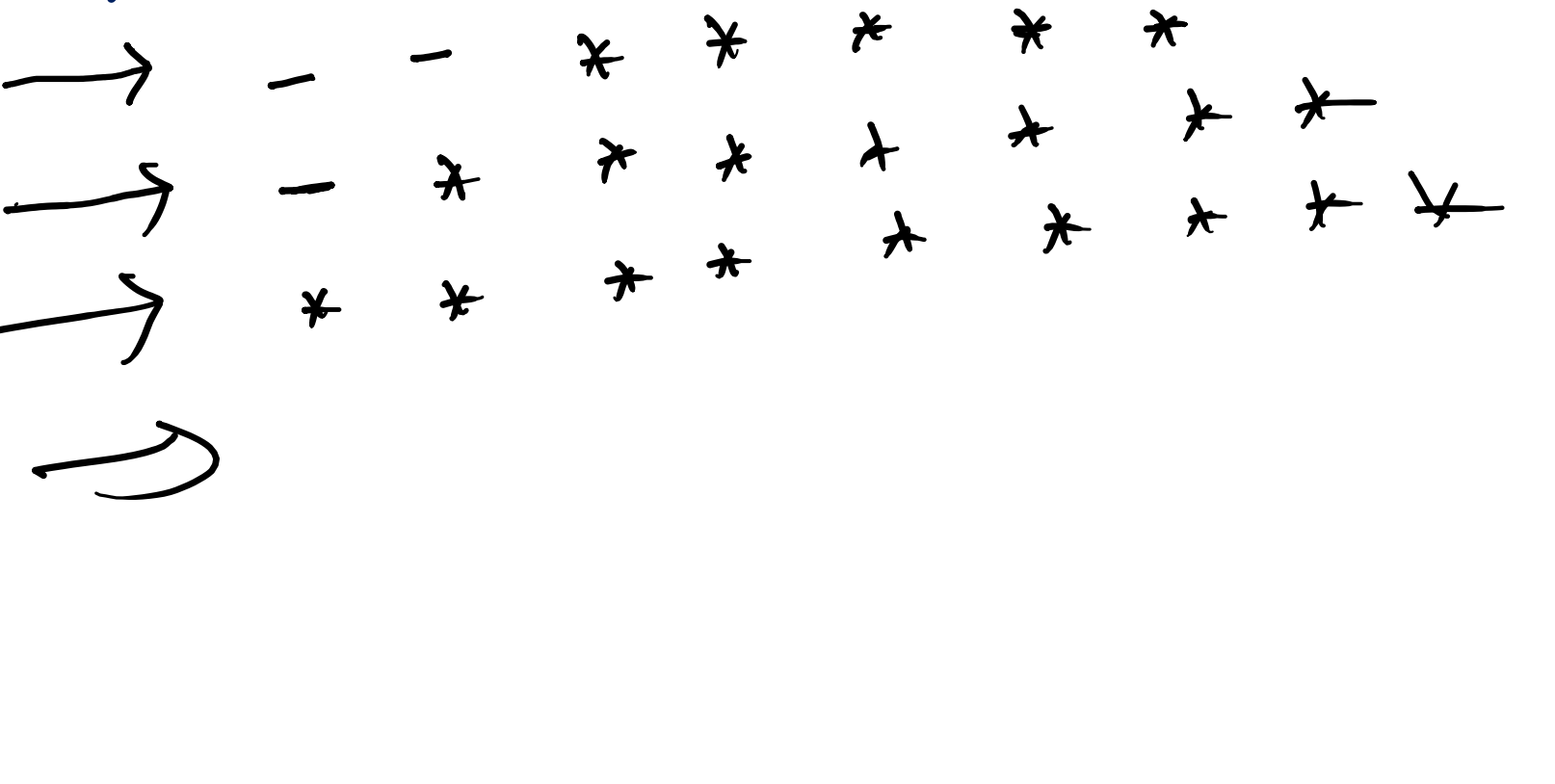
6) Star = Star + 2

7) Space = Space - 1

```
public static void main(String[] args) {
    // TODO Auto-generated method stub
    int n = 5;
    int row = 1;
    int star = 1;
    int space = n - 1;
    while (row <= n) {
        // space
        int i = 1;
        while (i <= space) {
            System.out.print(" ");
            i++;
        }
        // star
        int j = 1;
        while (j <= star) {
            System.out.print("* ");
            j++;
        }
        // next line ki prep
        System.out.println();
        row++;
        star = star + 2;
        space = space - 1;
    }
}
```

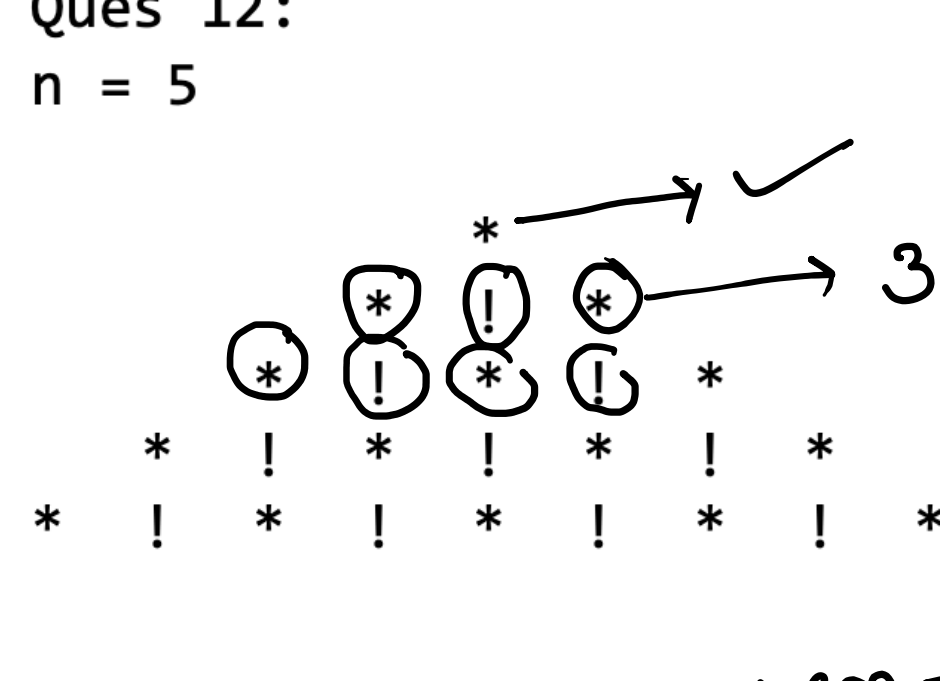
N = 5

Row = 1    Star = 1    Space = 4



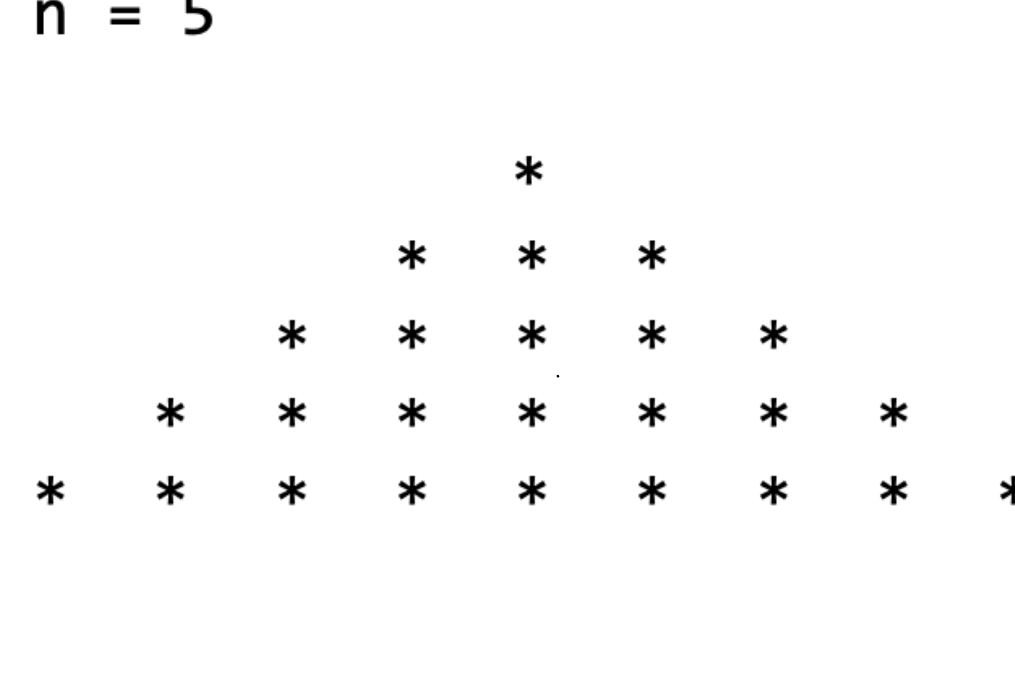
Ques 12:

n = 5



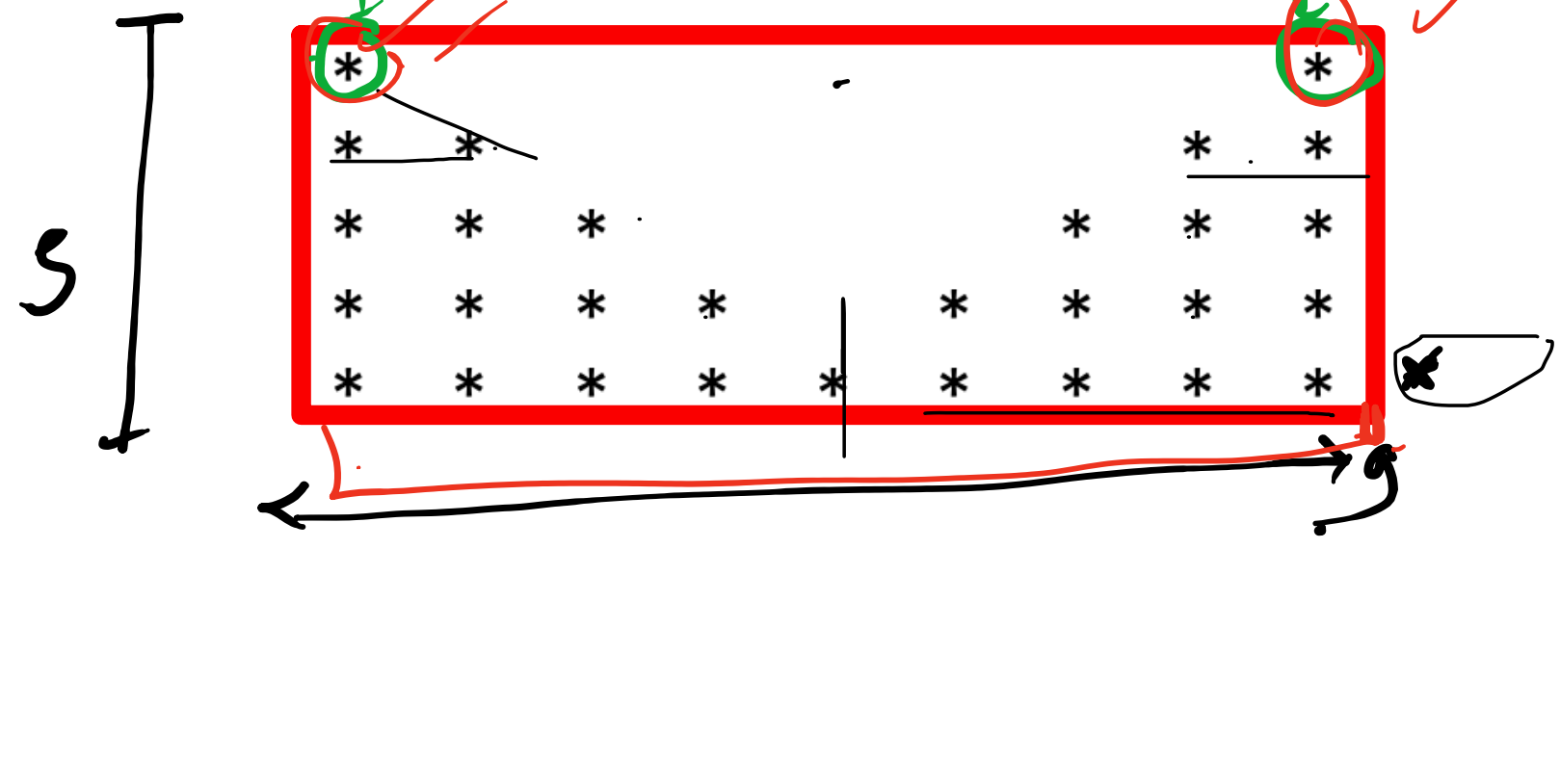
Ques 9:

n = 5



Ques 21:

n = 5



Row = 1 to N    Star = 1    Space = 2 \* n - 3

While (Row ≤ n) {

1) Star =

2) Space =

3) Star =

4) next line prob

5) S++

6) Row++

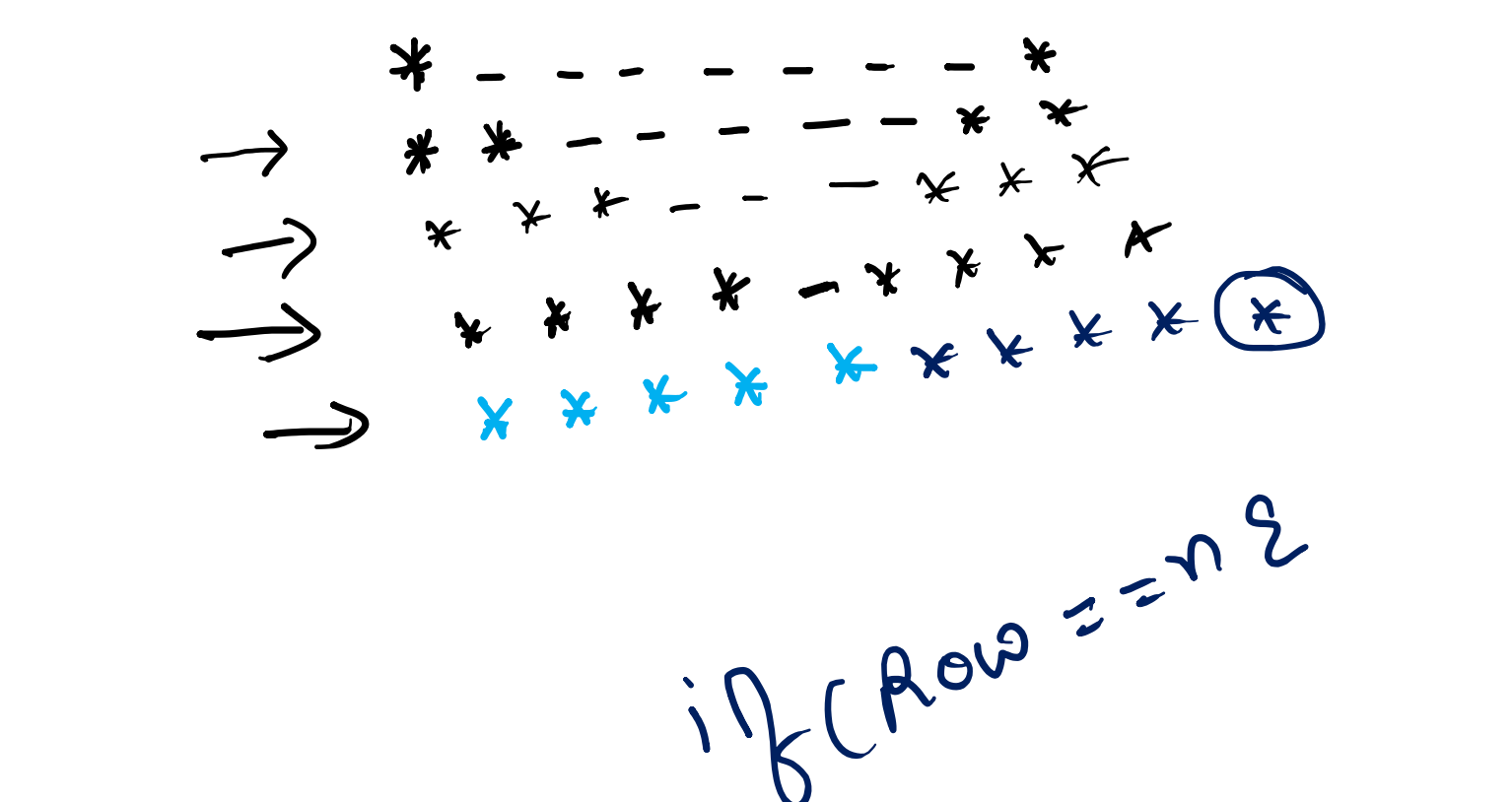
7) Star++

8) Space = Space - 2

```
public static void main(String[] args) {
    // TODO Auto-generated method stub
    int n = 5;
    int row = 1;
    int star = 1;
    int space = 2 * n - 3;
    while (row <= n) {
        // star
        int i = 1;
        while (i <= star) {
            System.out.print("* ");
            i++;
        }
        // space
        int j = 1;
        while (j <= space) {
            System.out.print(" ");
            j++;
        }
        // star
        int k = 1;
        while (k <= star) {
            System.out.print(" ");
            k++;
        }
        // next line ki prep
        System.out.println();
        row++;
        star++;
        space = space - 2;
    }
}
```

Row = 1

N = 5    Star = 1    Space = 7

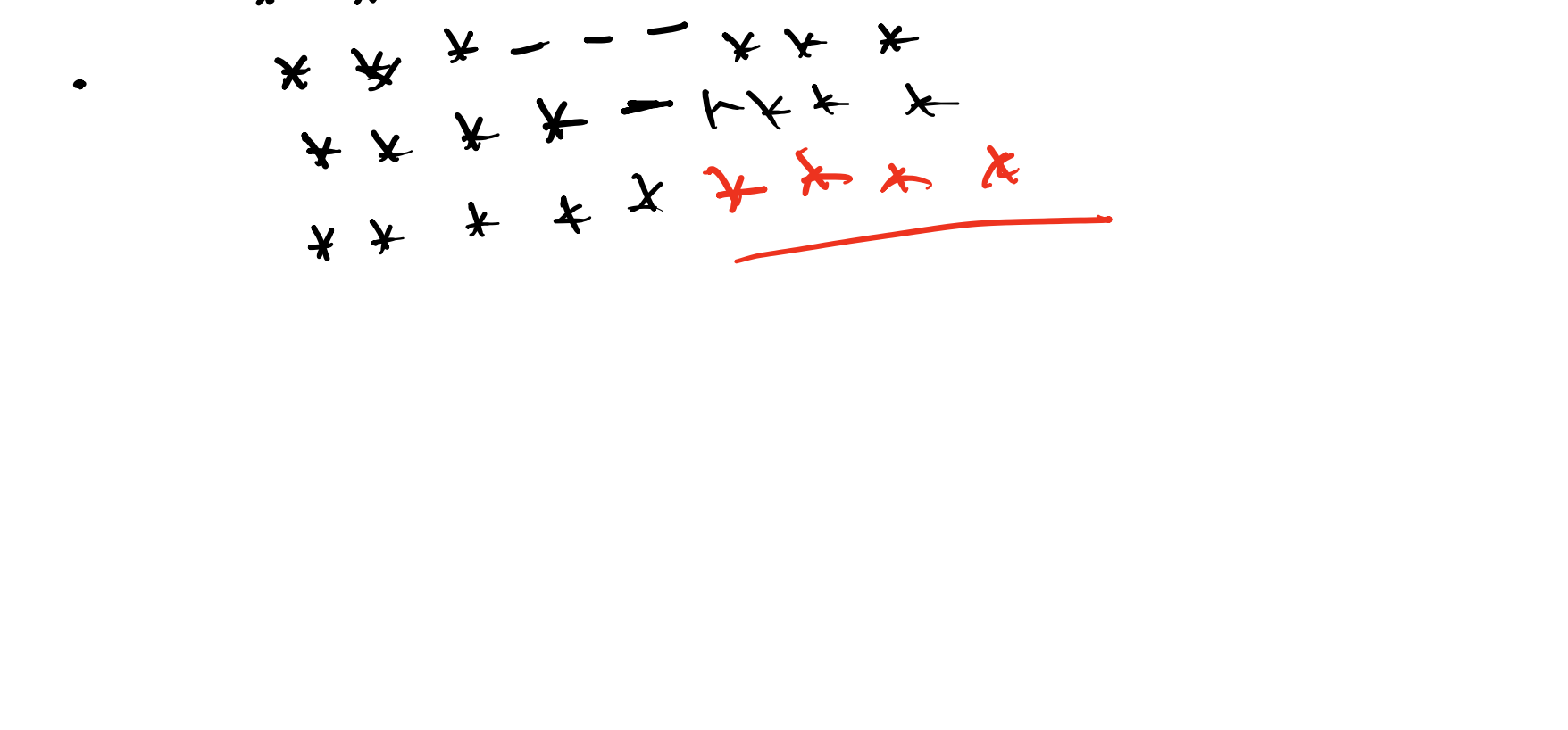


if (Row == n) {

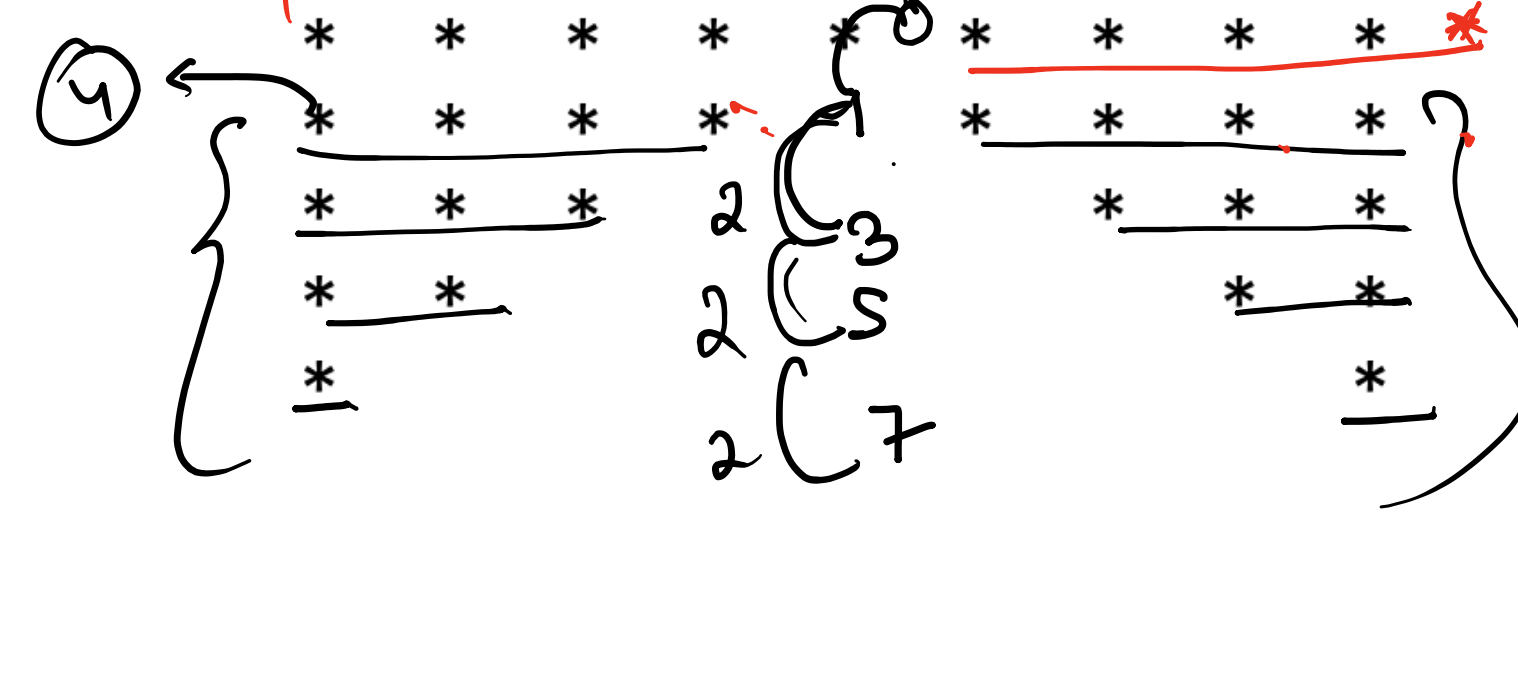
```
public static void main(String[] args) {
    // TODO Auto-generated method stub
    int n = 5;
    int row = 1;
    int star = 1;
    int space = 2 * n - 3;
    while (row <= n) {
        // star
        int i = 1;
        while (i <= star) {
            System.out.print("* ");
            i++;
        }
        // space
        int j = 1;
        while (j <= space) {
            System.out.print(" ");
            j++;
        }
        // star
        int k = 1;
        if (row == n) {
            k = 2;
        }
        while (k <= star) {
            System.out.print(" ");
            k++;
        }
        // next line ki prep
        System.out.println();
        row++;
        star++;
        space = space - 2;
    }
}
```

Row = 1

N = 5    Star = 1    Space = 7



n = 5



Row = 1 to N

Star = N    Space = -1

While (Row ≤ n) {

1) Star =

2) Space =

3) Star =

4) next line

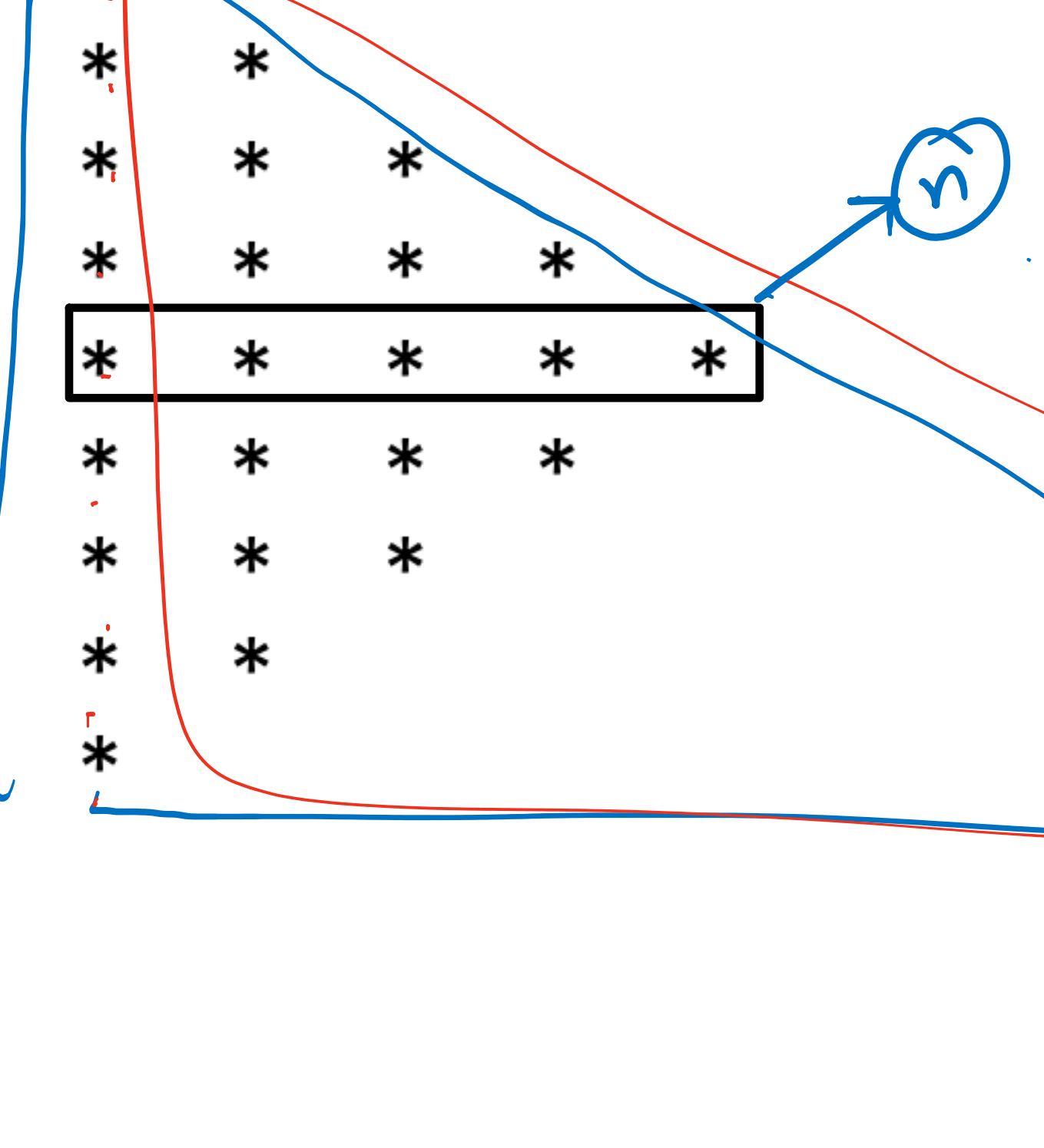
5) S++

6) Row++

7) Star++

8) Space = Space + 2

n = 5



Row = 1

Star = 1

While (Row ≤ 2 \* n - 1) {

1) Star =

2) Space =

3) Star =

4) next line

5) S++

6) Row++

7) Star++

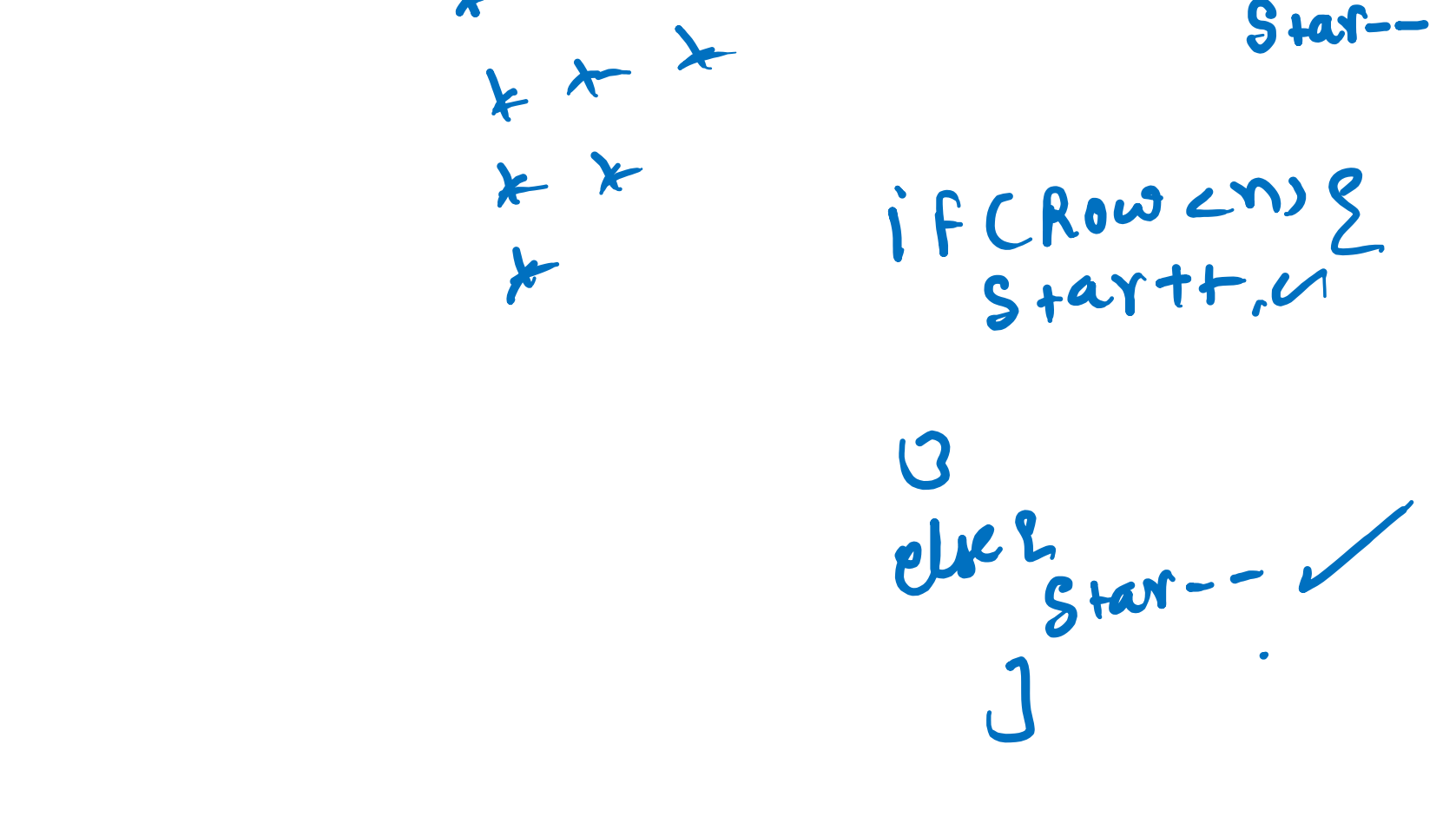
8) Space = Space + 2

```
public static void main(String[] args) {
    // TODO Auto-generated method stub
    int n = 5;
    int row = 1;
    int star = 1;
    while (row <= 2 * n - 1) {
        // star
        int i = 1;
        while (i <= star) {
            System.out.print("* ");
            i++;
        }
        // next line ki prep
        System.out.println();
        row++;
        star++;
    }
}
```

Row = 1

Star = 1

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



if (Row < n) {

Star++

Space--

else {

Star--

Space++

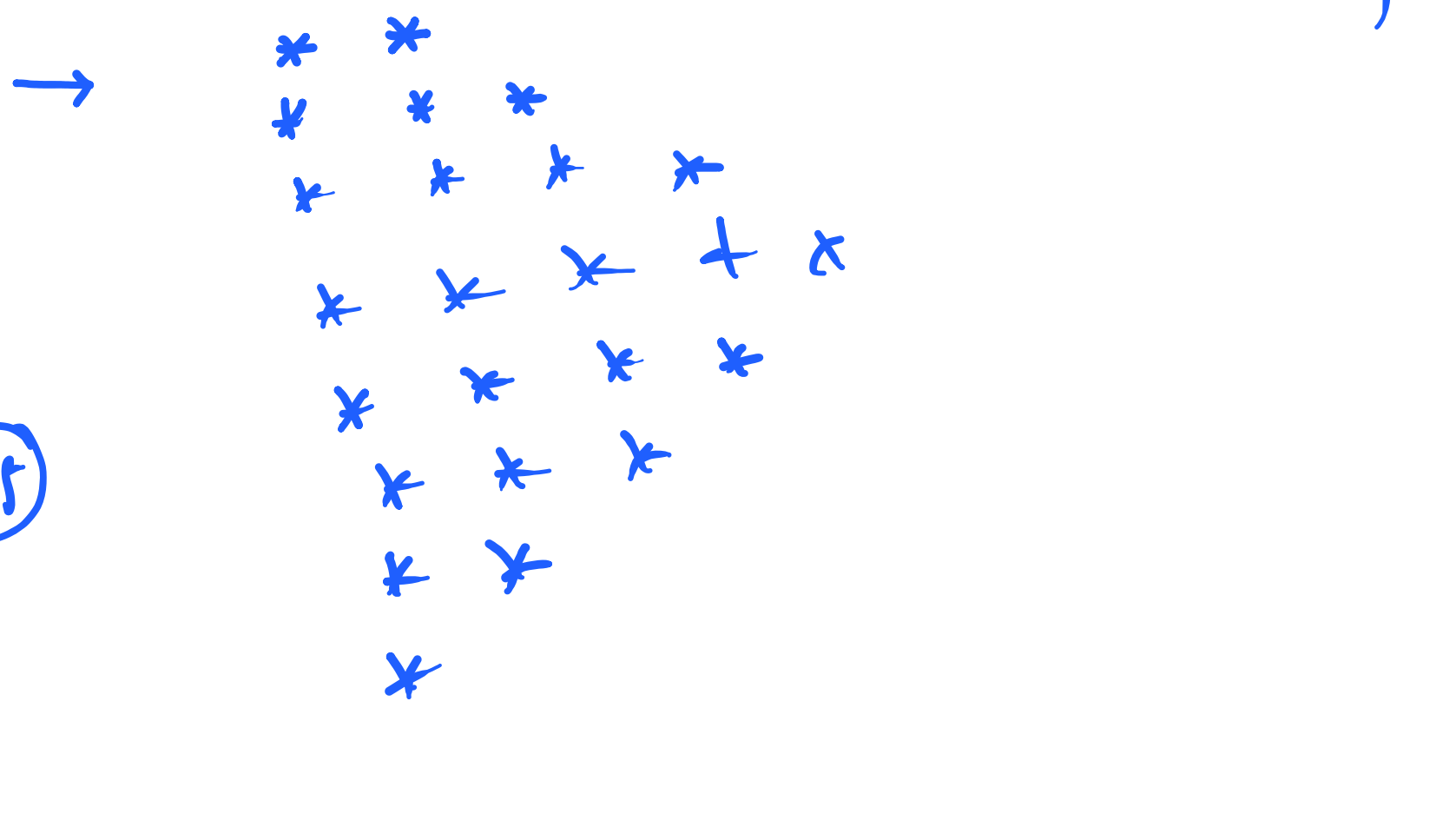
```
public static void main(String[] args) {
    // TODO Auto-generated method stub
    int n = 5;
    int star = 1;
    int row = 1;
    while (row <= 2 * n - 1) {
        // star
        int i = 1;
        while (i <= star) {
            System.out.print("* ");
            i++;
        }
        // Mirror
        if (row < n) {
            star++;
        }
        else {
            star--;
        }
        // next line ki prep
        System.out.println();
        row++;
    }
}
```

Row = 1

N = 5

Star = 1

Row = 1



Row = 1

Star = N

Space = n-1

While (Row ≤ 2 \* n - 1) {

1) Space =

2) Star =

3) Star =

4) next line

5) S++

6) Row++

7) Star++

8) Space = Space + 2

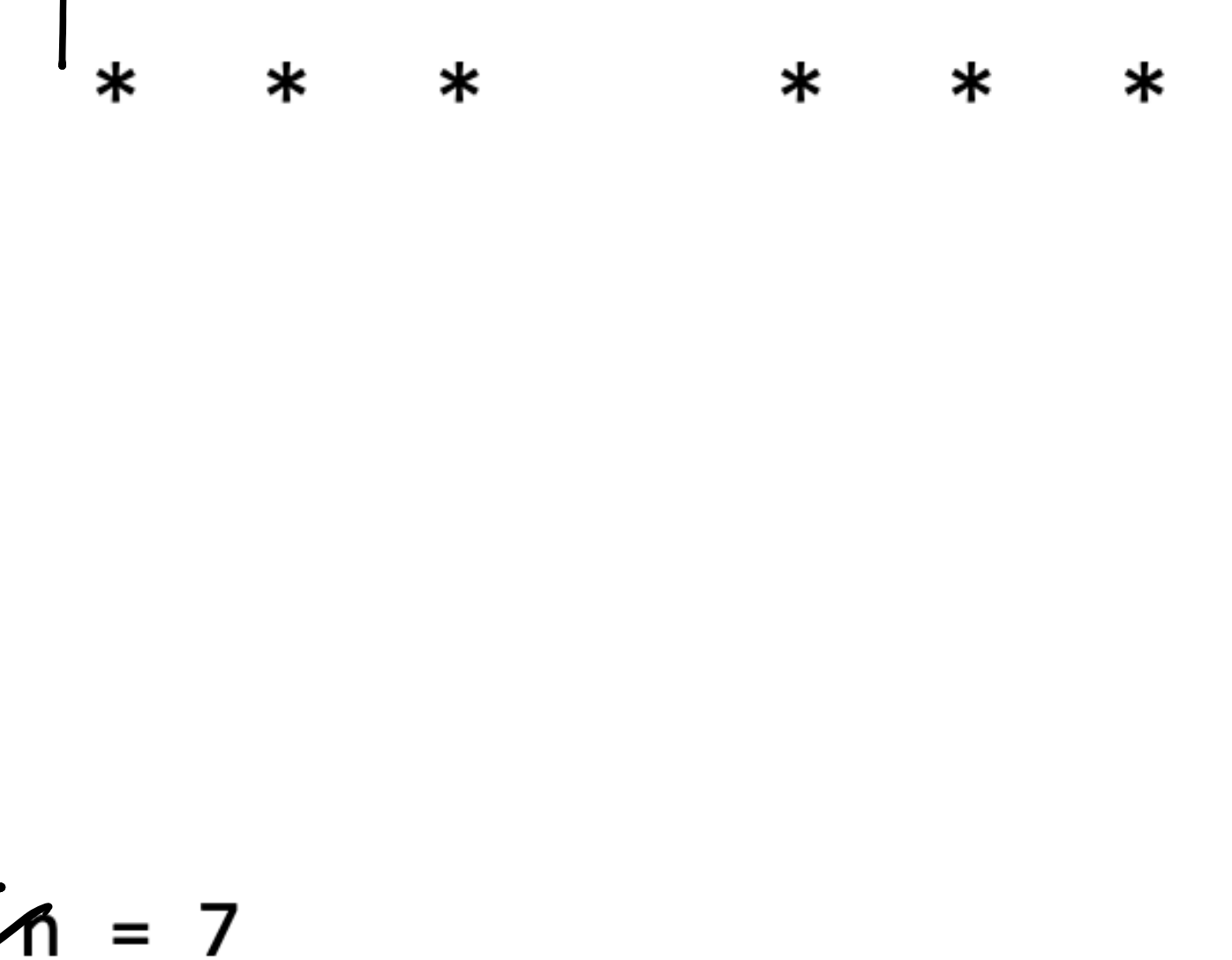
S = 6

N = 7

n-1 = 6

n/2 = 3.5

n/2 = 3.5



Row = 1

Star = n

Space = 1

While (Row ≤ n) {

1) Star =

2) Space =

3) Star =

4) next line

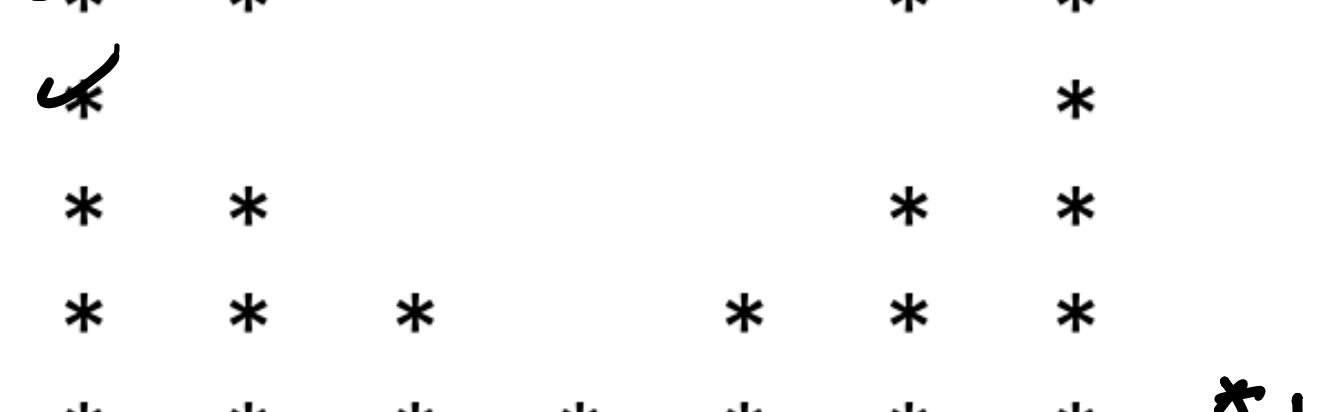
5) S++

6) Row++

7) Star++

8) Space = Space + 2

n = 7



Row = 1    Star = n/2    Space = 1

While (Row ≤ n) {

1) Star =

2) Space =

3) Star =

4) next line

5) S++

6) Row++

7) Star++

8) Space = Space + 2