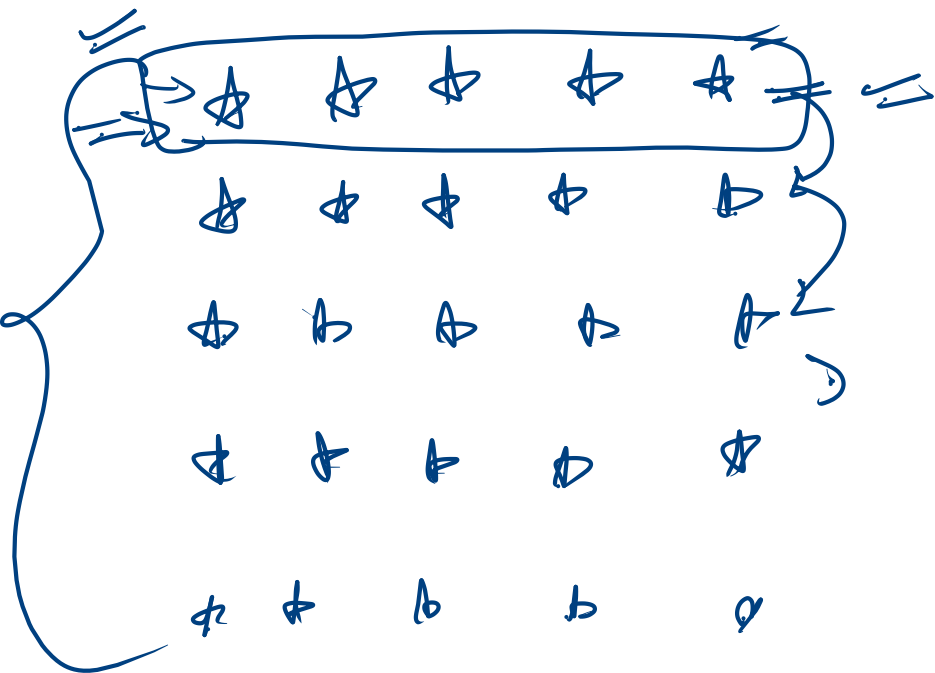


$$n = 5$$



8

for (C \_ \_ \_ ) { ←

[CODE]

}

$j \neq 2$

10

11

```
// "static void main" must be defined in a public class.
```

```
public class Main {
```

```
    public static void main(String[] args) {
```

```
        int n = 10;
```

```
        for(int j = 1; j <= n; j += 1) {
```

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

```
                System.out.print("* ");
```

```
            }
```

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

```
        }
```

```
    }
```

```
}
```

☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ .

☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆

$j = \cancel{1} 2$

$j \leq 10 \rightarrow \text{work}$

$j++$

```

public class Main {
    public static void main(String[] args) {
        for(int i = 1; i <= 100; i *= 2) {
            for(int j = 0; j * j <= i; j++) {
                System.out.println(i + " " + j);
            }
            System.out.println();
        }
    }
}

```

1 2 4 8 16 32 64

~~i=1~~ ~~2~~ ~~4~~ 8

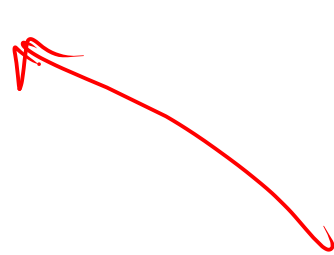
5

~~j=0~~ ~~1~~ ~~2~~

j \* j <= i → work

4 <= 2

9 <= 4



j++

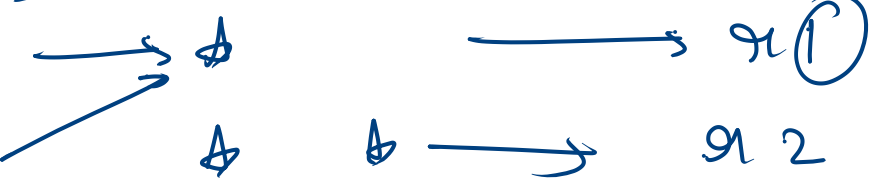
1 0 1 1

2 0 2 1

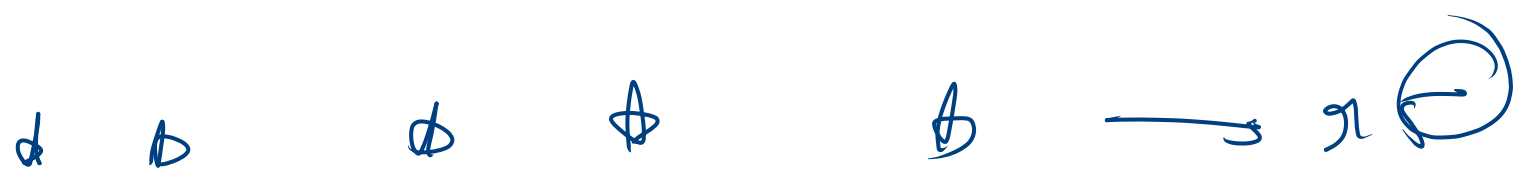
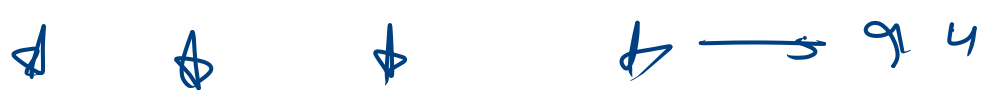
4 0 4 1 4 ~~2~~

0 \

$$\underline{n=5}$$



$$n = \cancel{8} \rightarrow 10$$



$n=5$

```
for(int x=1; x<=n; x++) {
```

```
    for(int i=1; i<=x; i++) {
```

```
        sys.out.println(i);
```

```
    }
```

```
    sys.out.println();
```

```
}
```

.....

```
public class Main {
    public static void main(String[] args) {
```

```
        int n = 5;
        for(int r = 1; r <= n; r++) {
            for(int i = 1; i <= r; i++) {
                System.out.print("* ");
            }
            System.out.println();
        }
    }
}
```

$n = 1, 2, 3, 4, 5$

$n = 3$

$n = 6$

```

*
* 
* 
* 
* 
* 

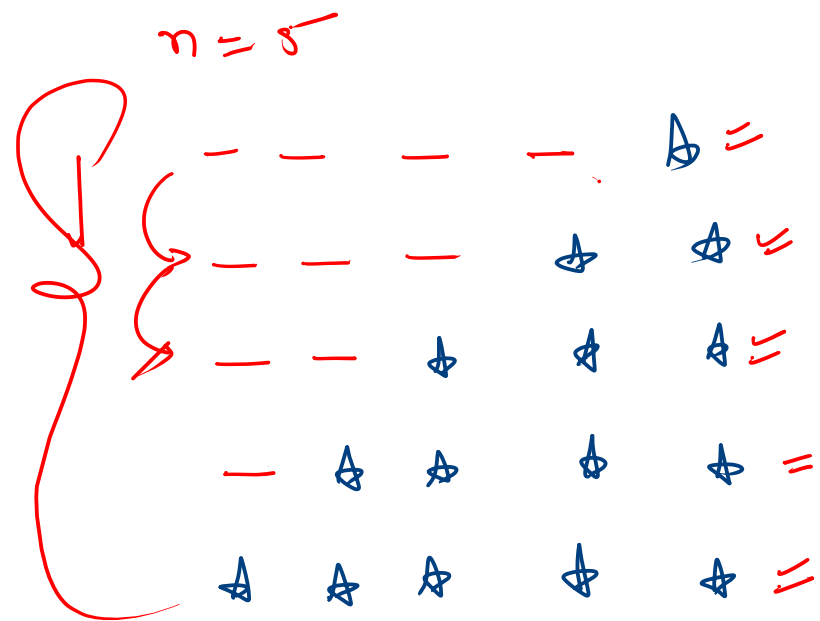
```

$i = 1$   $i <= 3 \rightarrow \text{sum}$

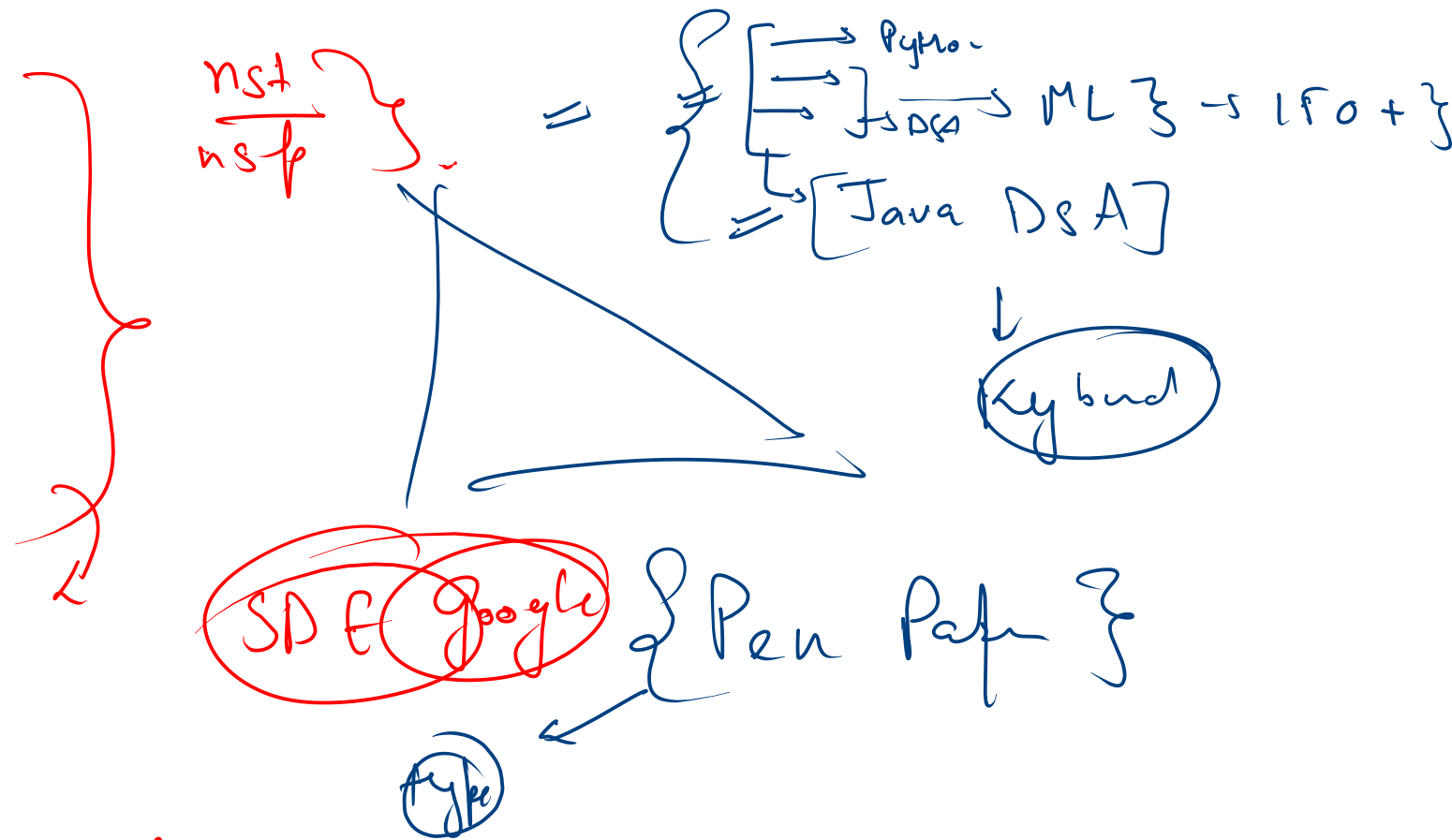
```

*
* 
* 
* 

```



$n-1$  1  $\textcircled{1} \leftarrow$   
 $n-2$  2  $\textcircled{2} \rightarrow$   
 $n-3$  3  
 $n-4$  4  
 $n-5$  5  
 $\vdots$



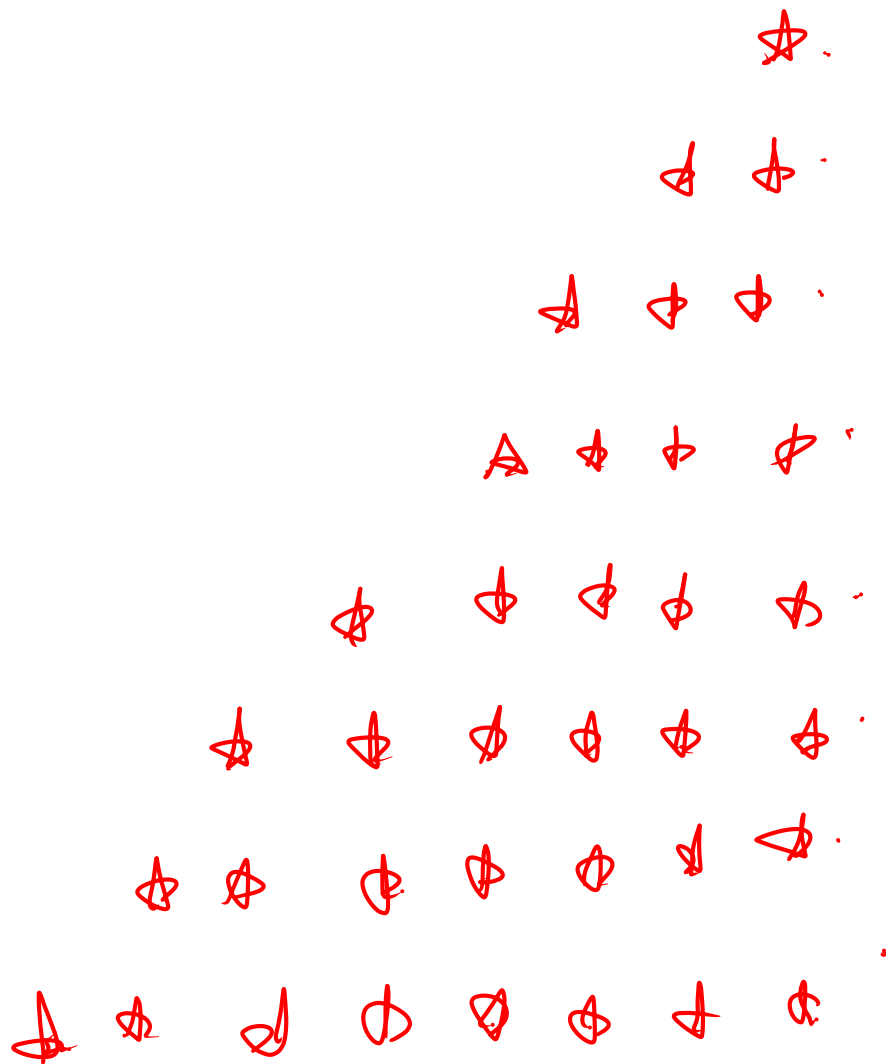
$\text{nsf} = n-1 =$   
 $\text{nst} = 1$

$$\Rightarrow n=8$$

$$g_1=1$$

$$nsp = \cancel{7} \cancel{6} \cancel{5} \cancel{4} \cancel{3} \cancel{2} \cancel{1} 0$$

$$\rightarrow nst = 1 \cancel{2} \cancel{3} \cancel{4} \cancel{5} \cancel{6} \cancel{7} 8$$



1



$$\left\{ \begin{array}{l} \underline{i++=1} \\ \quad \hookrightarrow i++ \\ \\ i-=1 \\ \quad \hookrightarrow i-- \end{array} \right.$$



