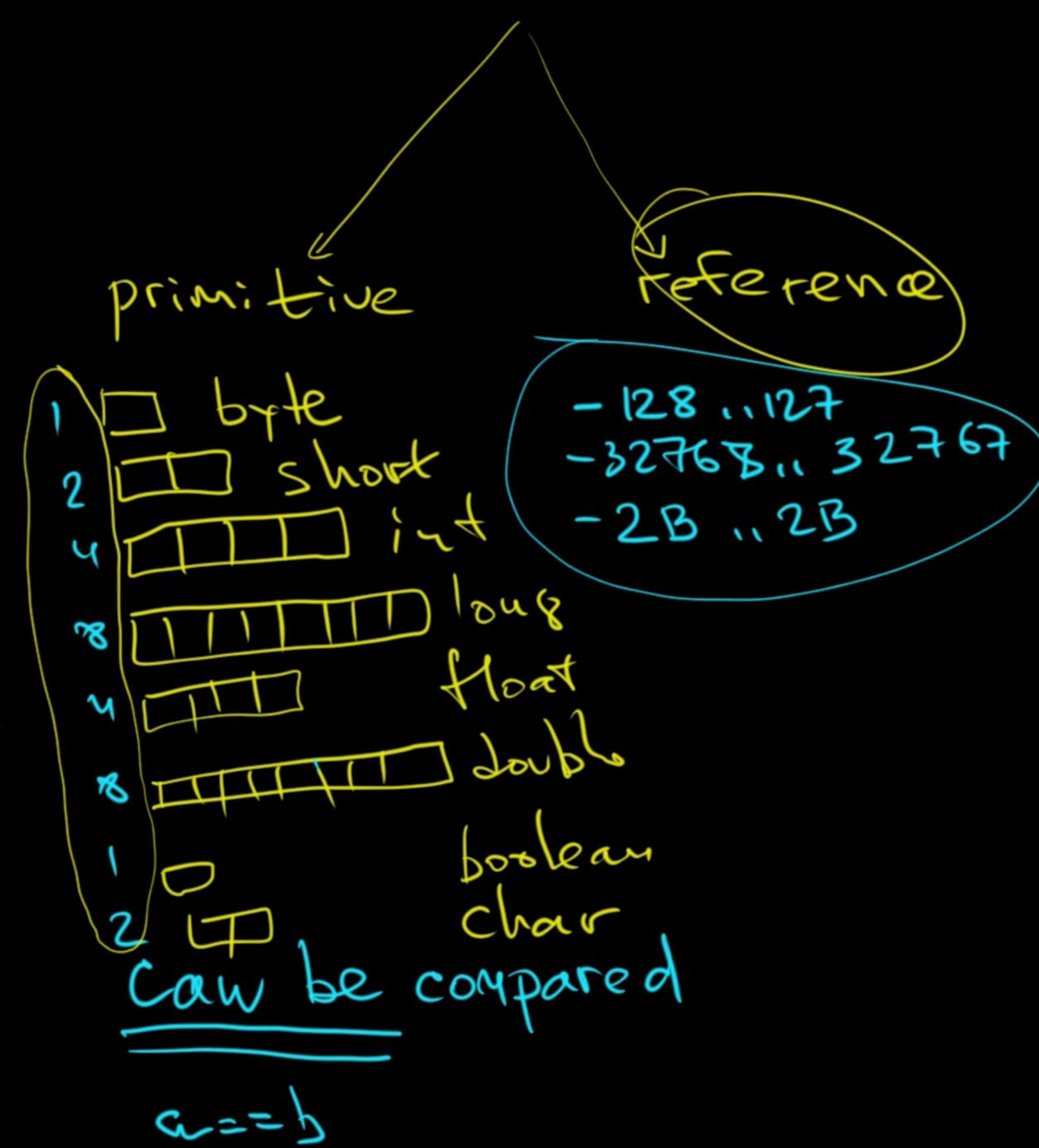
```
public class Pizza {
   String name;

public Pizza(String name) {
   this.name = name;
}
```

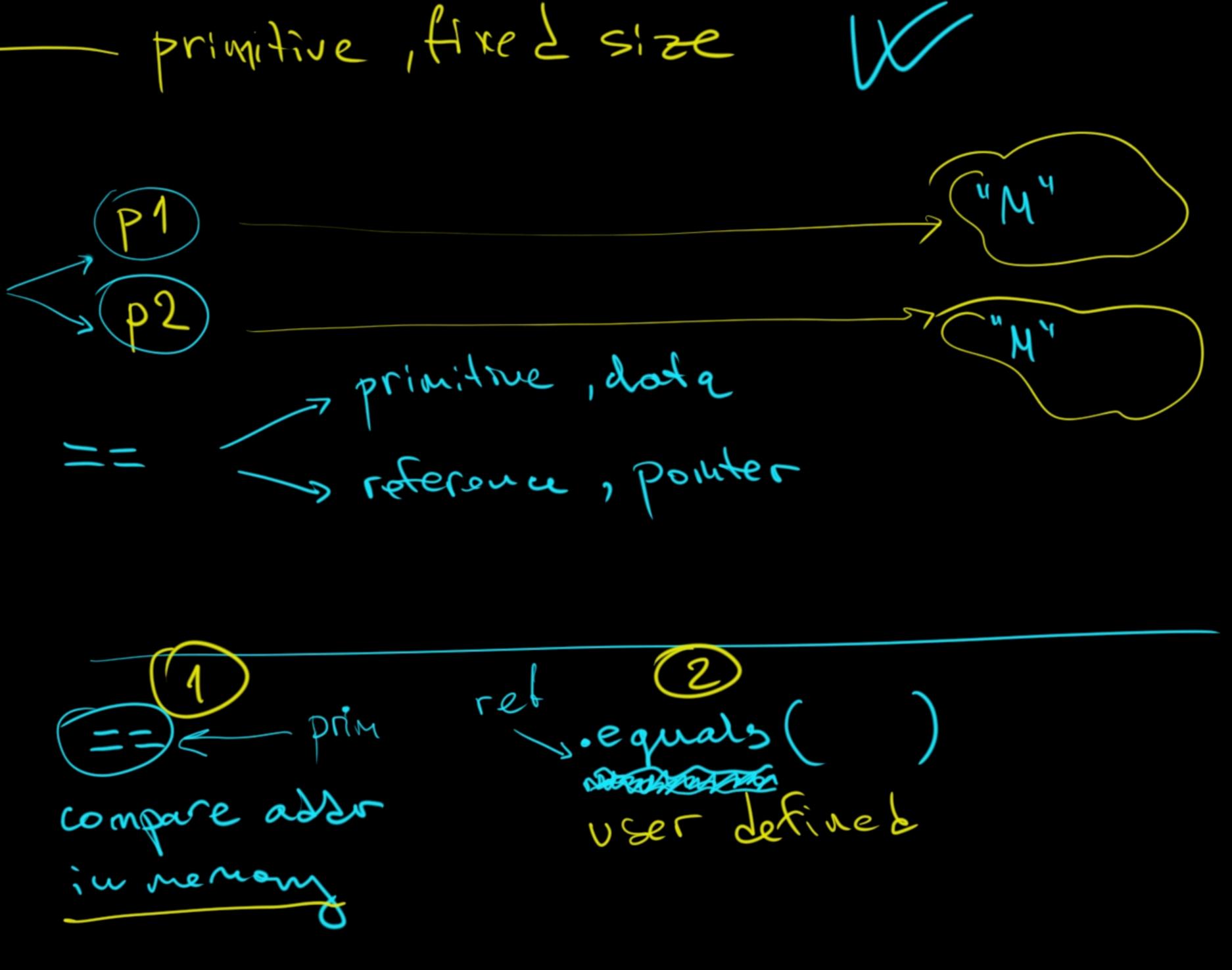
```
Pizza p1 = new Pizza(name: "Margarita");
Pizza p2 = new Pizza(name: "Margarita");
System.out.println(p1 == p2); // false
```

12481632 64 708 256 512 1024 2048 4096 8192 16384 32768 (5535



```
# 2
```

```
int x = 5;
int y = 5;
System.out.println(x == y); // true
Pizza p1 = new Pizza(name: "Margarita");
Pizza p2 = new Pizza(name: "Margarita");
System.out.println(p1 == p2); // false
String s1 = "java";
String s2 = "java";
System.out.println(s1 == s2); // true
String s3 = "ja".concat(str: "va");
System.out.println(s1 == s3); // false
String s4 = new String(original: "java");
String s5 = new String(original: "java");
System.out.println(s4 == s5); // false
```



```
System.out.println(p1.equals(p2)); // true
System.out.println(p1)equals(p1); // true
System.out.println(p1.equals(null)); // false
System.out.println(p1.equals("M")); // false
System.out.println(p1.equals(new int[]{123}));
public boolean equals(Object obj) {
  if (obj == this) return true; <
  if (obj == null) return false;
  if (!(obj instanceof Pizza)) return false;
  Pizza that = (Pizza) obj; <
  return [that.name] equals(this.name);
          Sylem
                              current
```

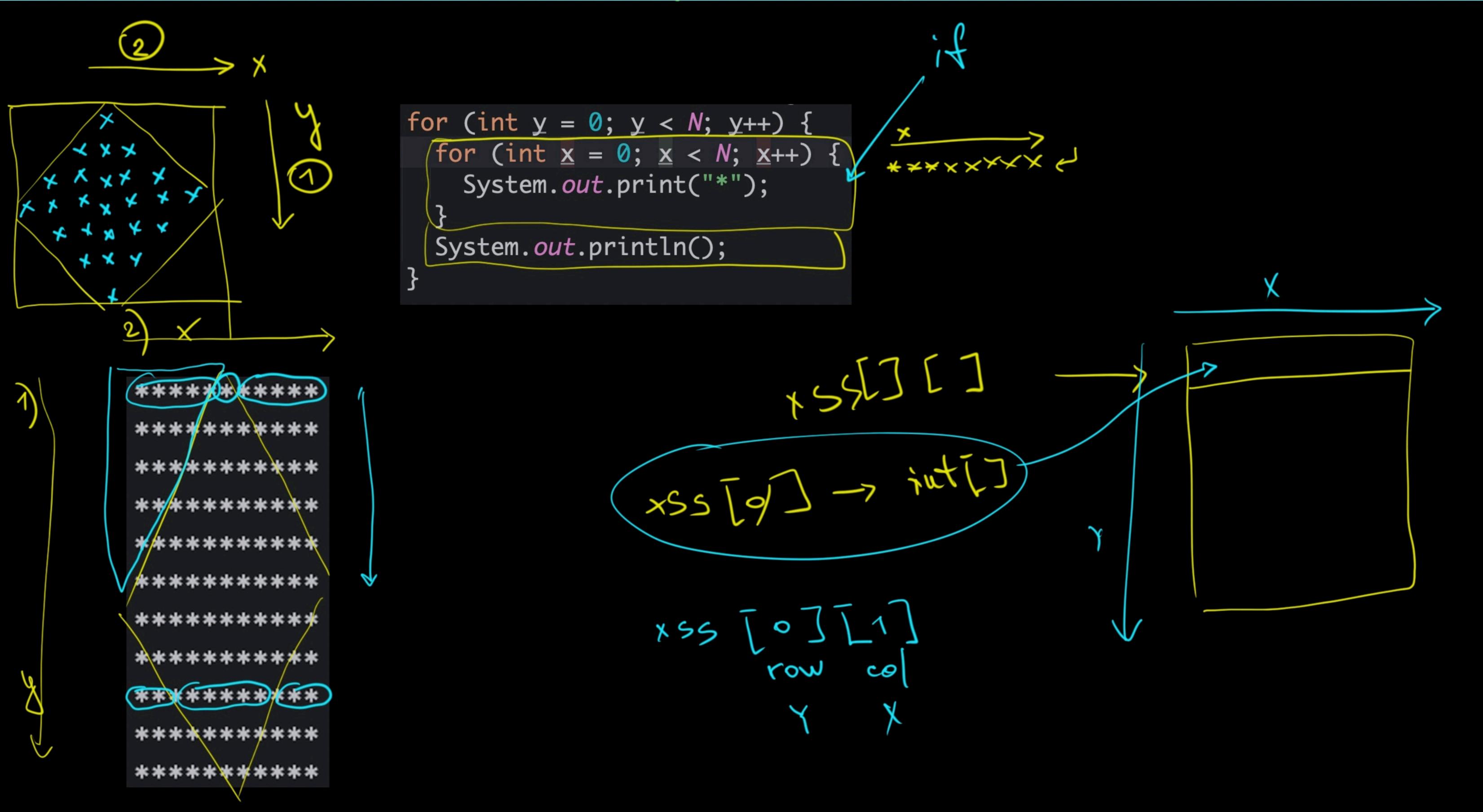
```
String s1
String s2 ≠
             'Java";
String s3 =/"ja".concat(str: "va");
System. out println(s1 == s3); // false
  compile time
                    runtime
```

```
String s1 = "java";
String s2 = "java";
System.out.println(s1 == s2); // true
```

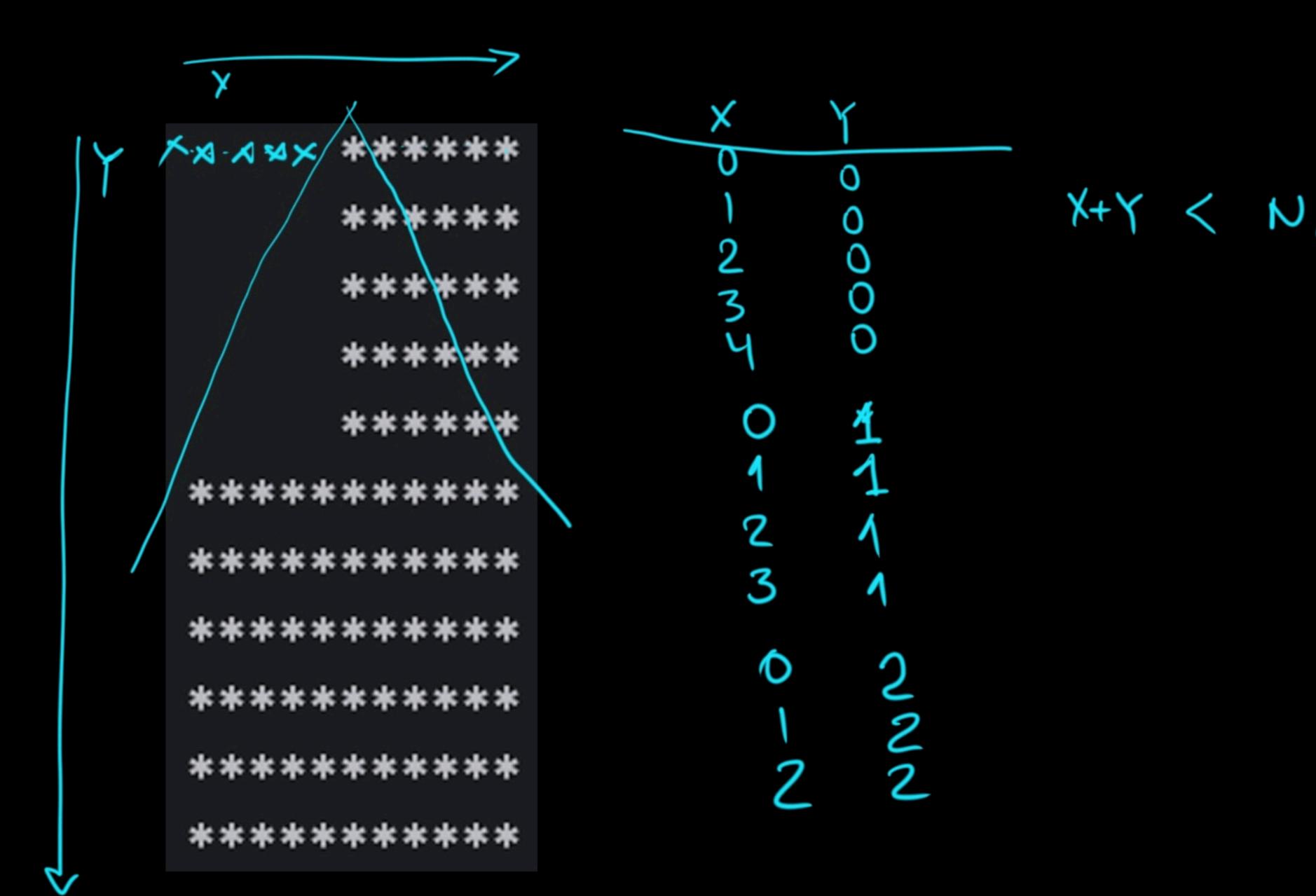
```
object creations
runtine -> heap of Jova
```

```
String s4 = new String(original: "java");
String s5 = new String(original: "java");
System.out.println(s4 == $5); // false
```

String pool
"Jova"

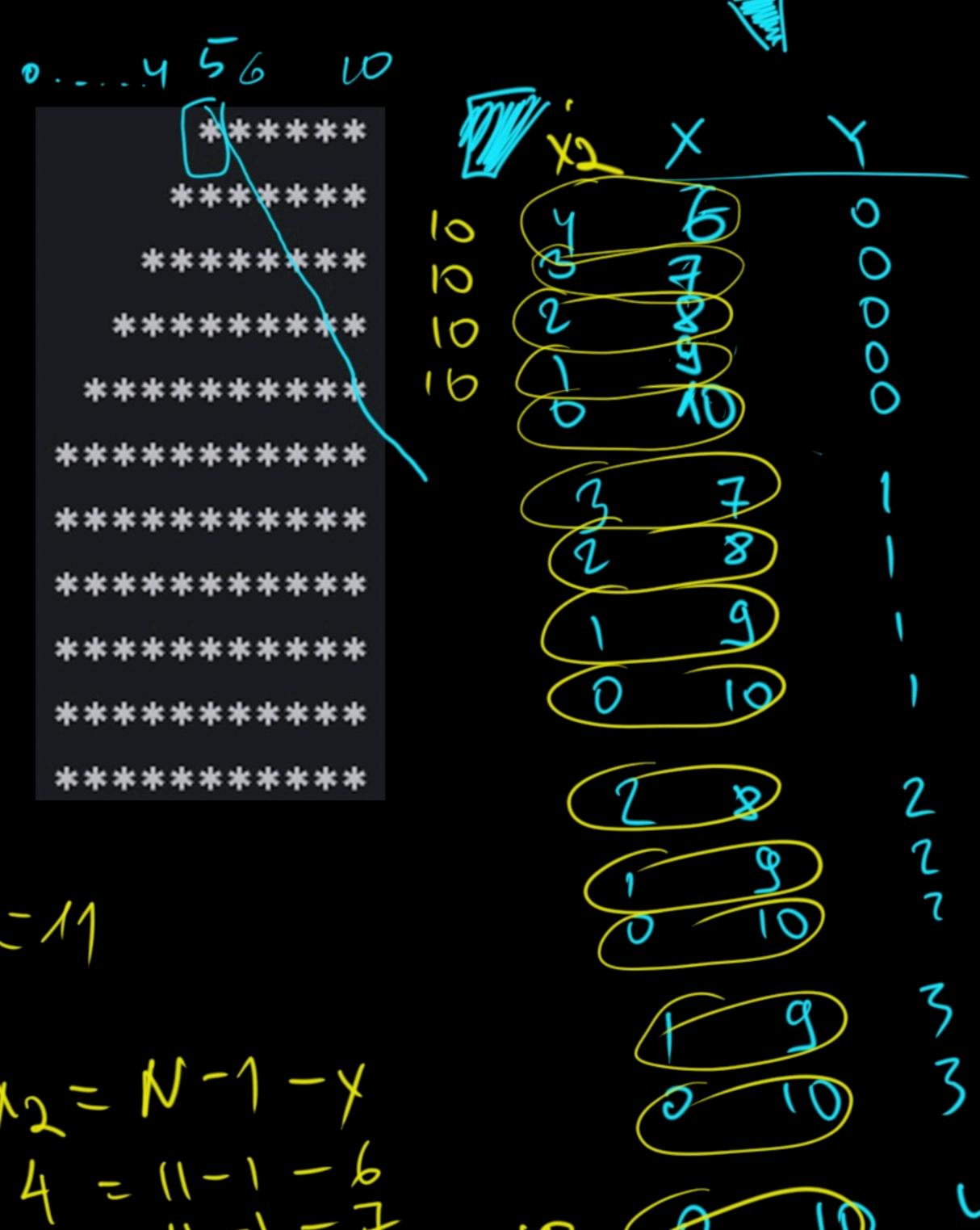


```
if ((x < N / 2) && (y < N / 2))
   System.out.print(" ");
else
   System.out.print("*");</pre>
```



N=11

```
for (int y = 0; y < N; y++) {
 for (int x = 0; x < N; x++) {
   if (x + y) < N / 2
      System.out.print(" ");
   else
      System.out.print("*");
  System.out.println();
```



N-1-4+1 LN/2 N=11

```
***
   ****
   *****
  ******
O ********
```

$$y=6$$
 $x=0$
 $y=7$ $x=0,1$
 $y=8$ $x=0,1,2,3$
 $y=10$ $x=0,1,2,3,4$

```
01234
       678910
```

```
for (int y = 0; y < N; y++) {
     for (int \underline{x} = 0; \underline{x} < N; \underline{x}++) {
                       (\underline{x} + \underline{y})
                                        < N / 2) System.out.print(" ");
    else if (N - 1 - x + y) < N / 2) System.out.print(" ");
    else if ( x + N - 1 - y < N / 2) System.out.print(" ");
       else
         System.out.print("*");
     System.out.println();
N-1-x+N-1-y
                                             System.out.print(" ");
                                    < N / 2) System.out.print(" ");
  else if (N - 1 -
  else if
                                 y)< N / 2) System.out.print(" ");</pre>
  else if
                                  y < N / 2) System.out.print(" ");
  else
     System.out.print("*");
```

```
#1
```

```
static int mirror(int n) {
  return N - 1 - n;
public static void main(String[] args) {
  int half = N / 2;
  for (int y = 0; y < N; y++) {
    for (int \underline{x} = 0; \underline{x} < N; \underline{x}++) {
      boolean q1 = ( \underline{x} + \underline{y} )
                                               < half);
      boolean q2 = (mirror(x) + y < half);
      boolean q3 = ( \underline{x} + mirror(\underline{y}) < half);
       boolean q4 = (mirror(x) + mirror(y) < half);
       char c = q1 | | q2 | | q3 | | q4 ? ' ' : '*';
       System.out.print(c);
    System.out.println();
```

```
***
  ****
 *****
******
*******
******
 *****
  ****
```