

```
Call Stack
```

System.out.println(temp3);

```
int add(int x, int y) {
    return x + y;
}

int product(int x, int y) {
    return x * y;
}

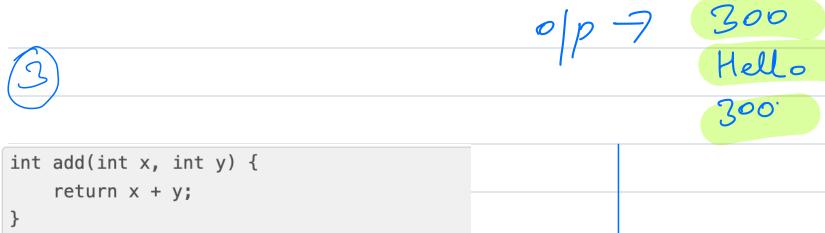
int subtract(int x, int y) {
    return x - y;
}

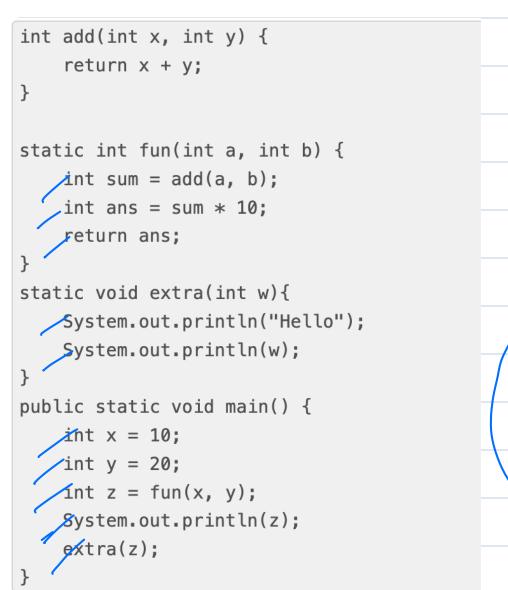
public static void main() {
    int x = 10;
    int y = 20;
    int temp1 = add(x, y);
    int temp2 = product(x, y);
    int temp3 = subtract(x, y);
    int temp3 = sub
```

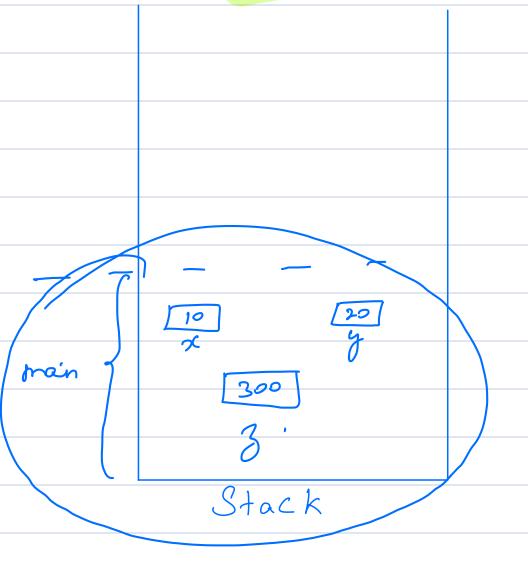
```
0/p -7 100°.
```

```
int add(int x, int y) {
    return x + y;
}

public static void main() {
    int x = 10;
    int y = 20;
    int temp1 = add(x, y);
    int temp2 = add(temp1, 30);
    int temp3 = add(temp2, 40);
    System.out.println(temp3);
}
```







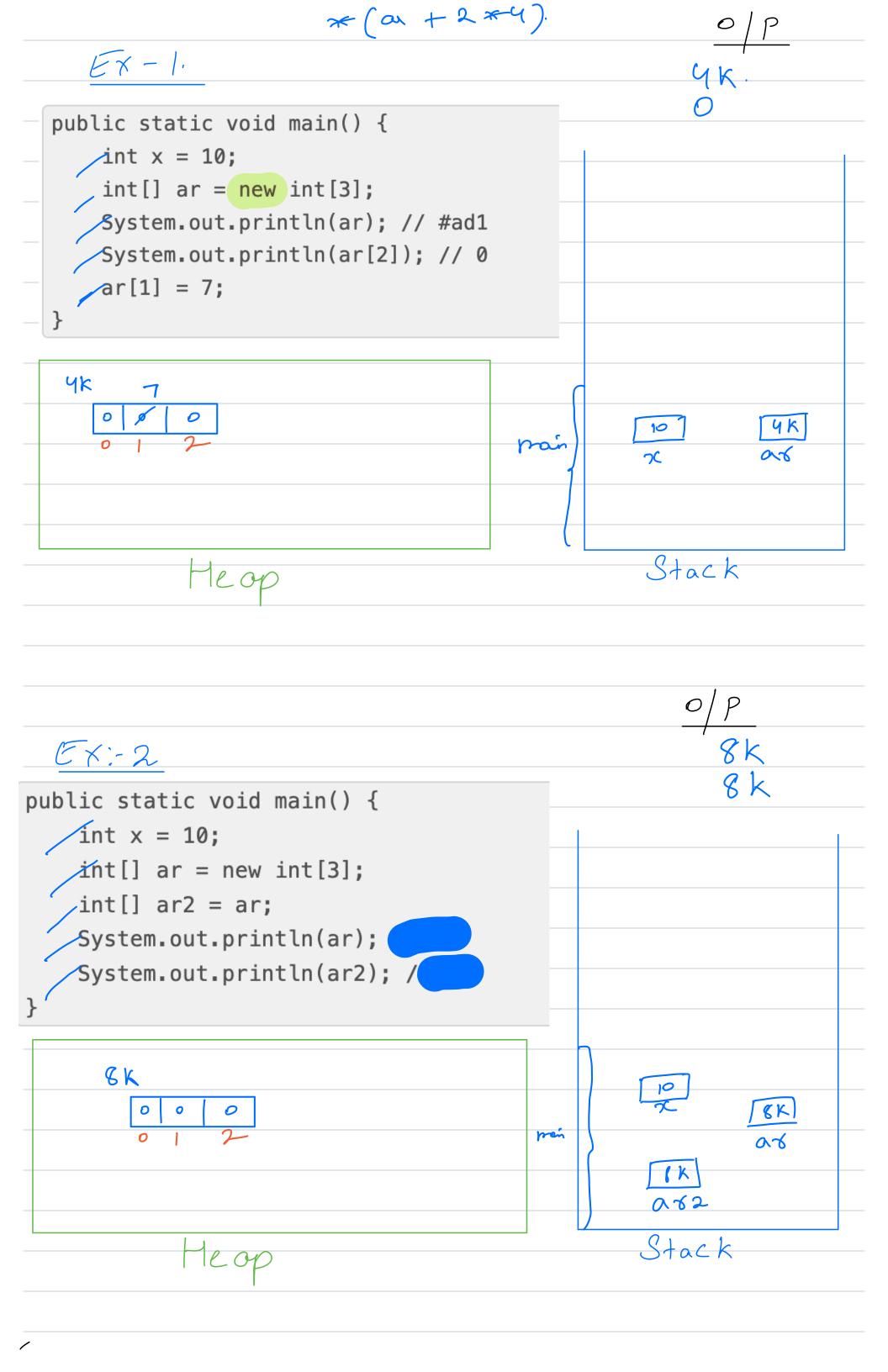
Types of Memory in Java

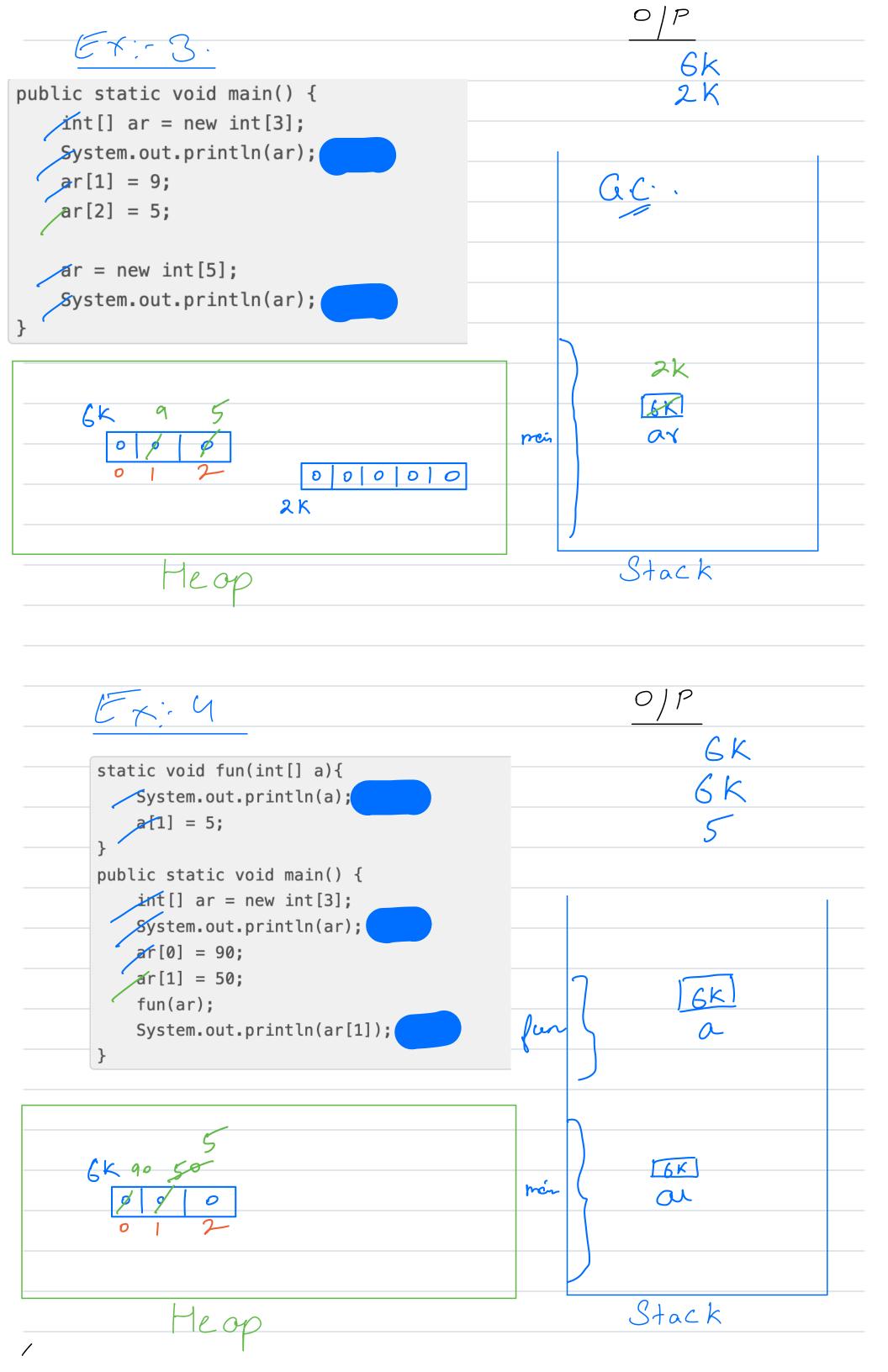
1) Stack -> () Function Cally
(2) Promitive data type
(3) Reference variables of my
container

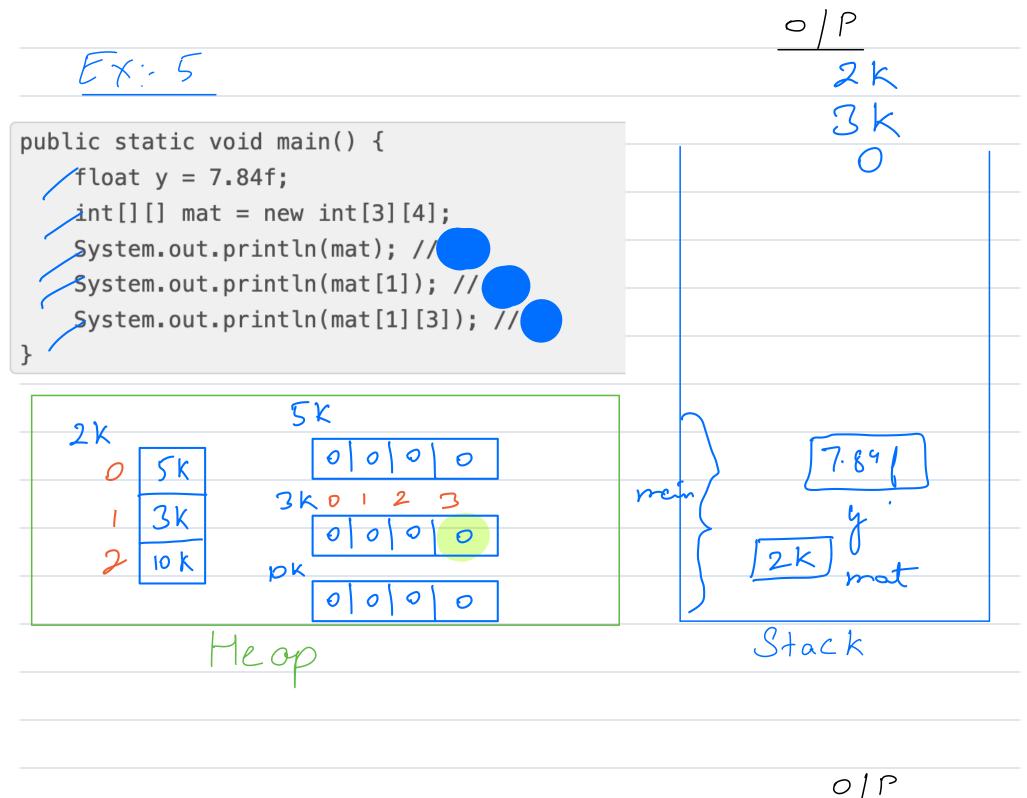
2) Meap 7. Actual container of that reference variable & Stored.

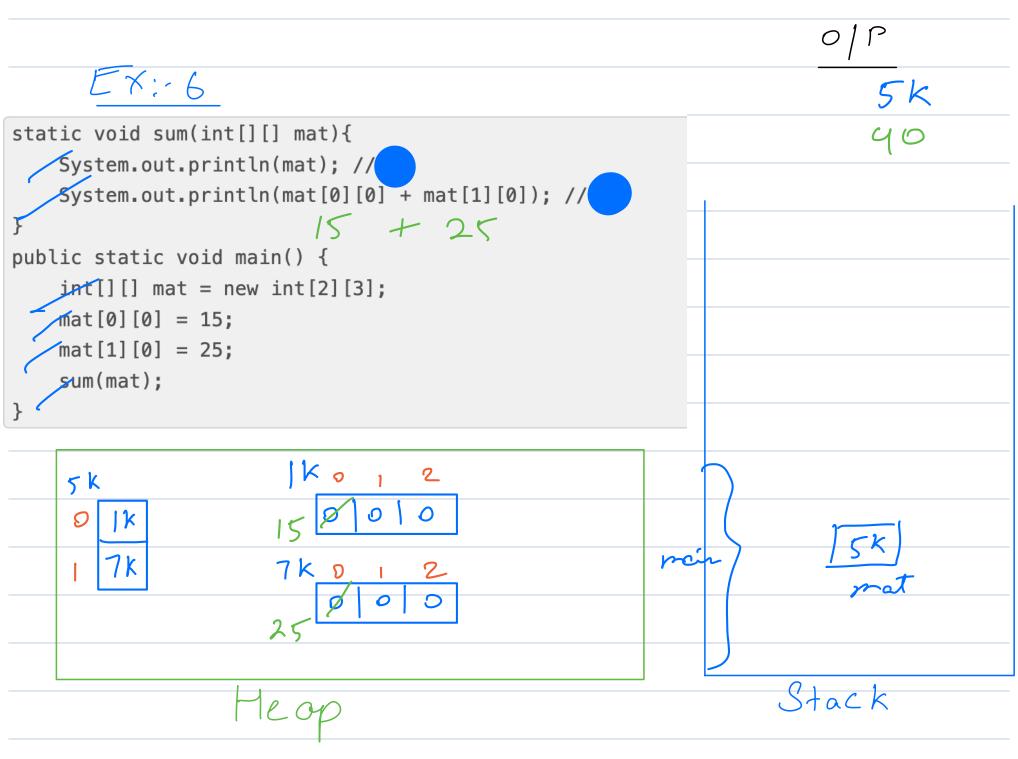
Aughist Objects.

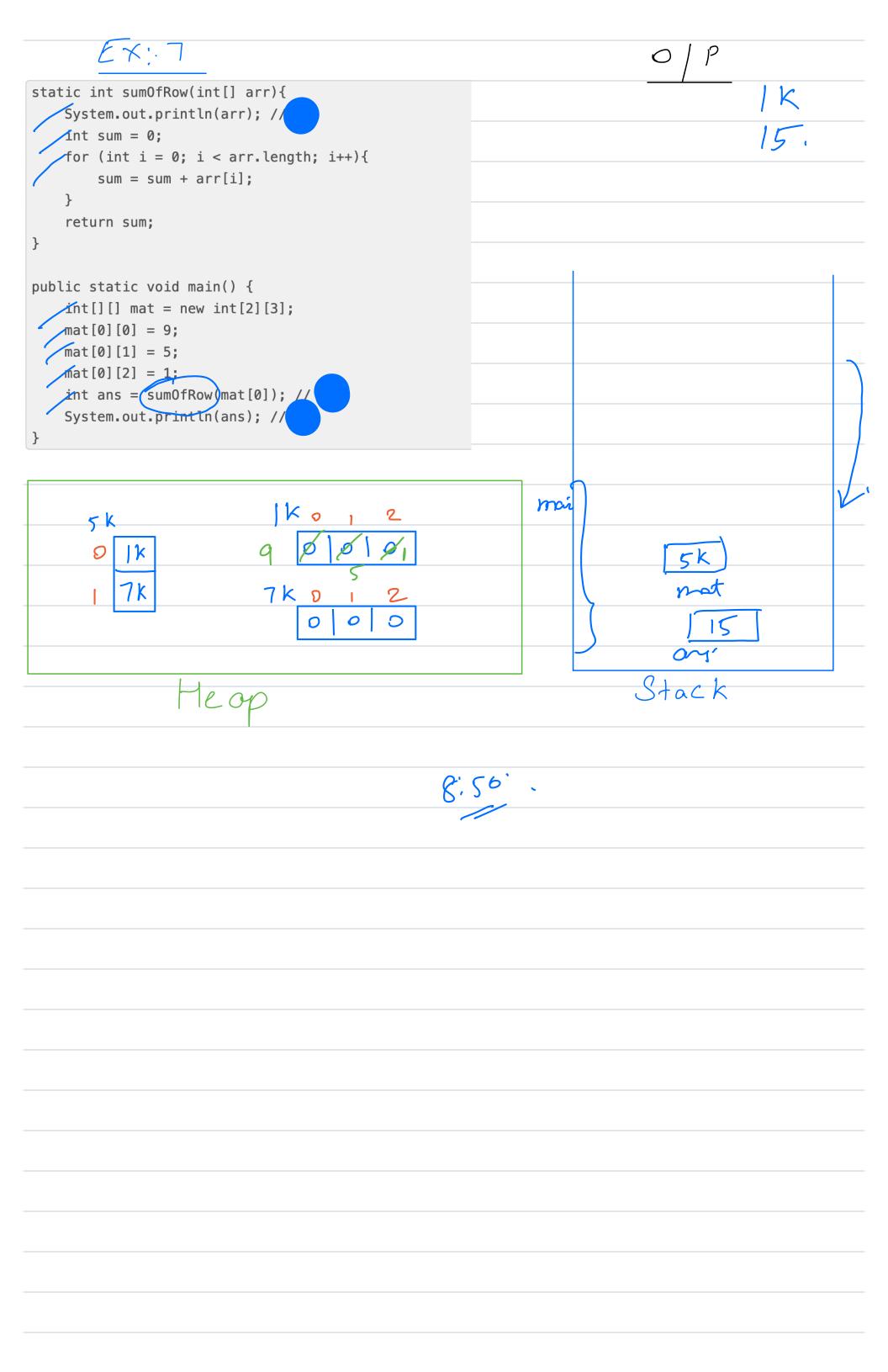
(Actual Instance)

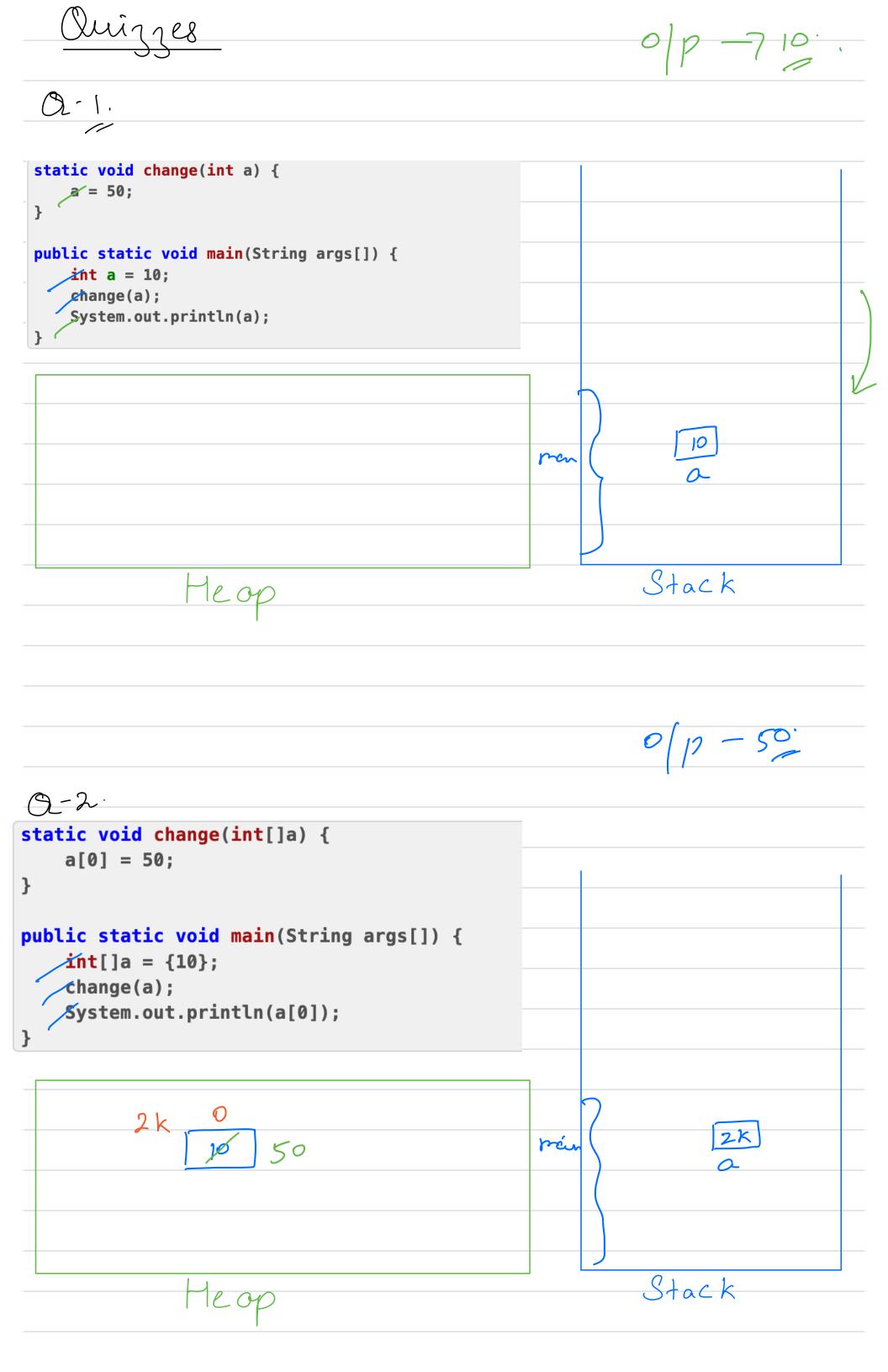




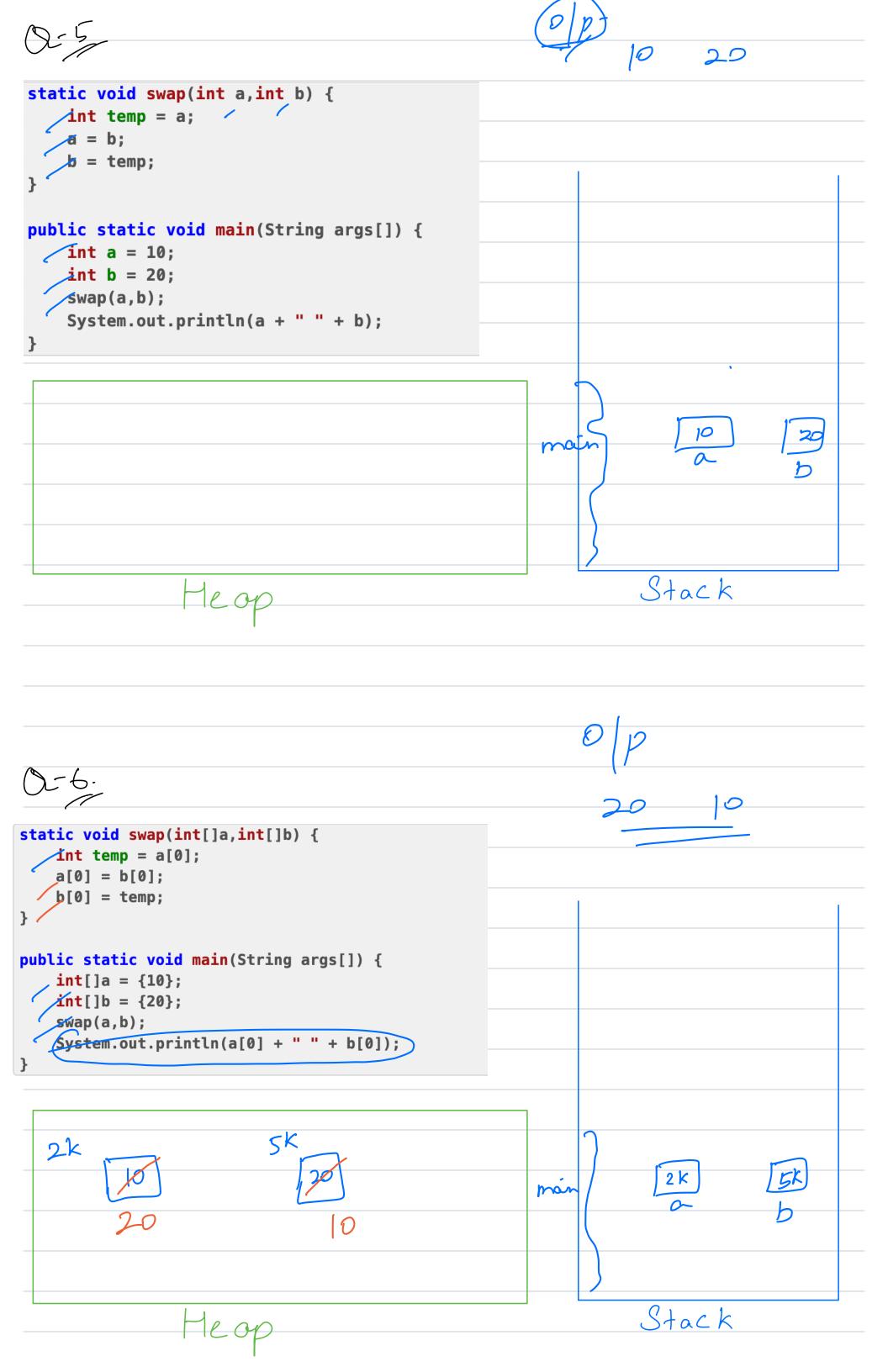


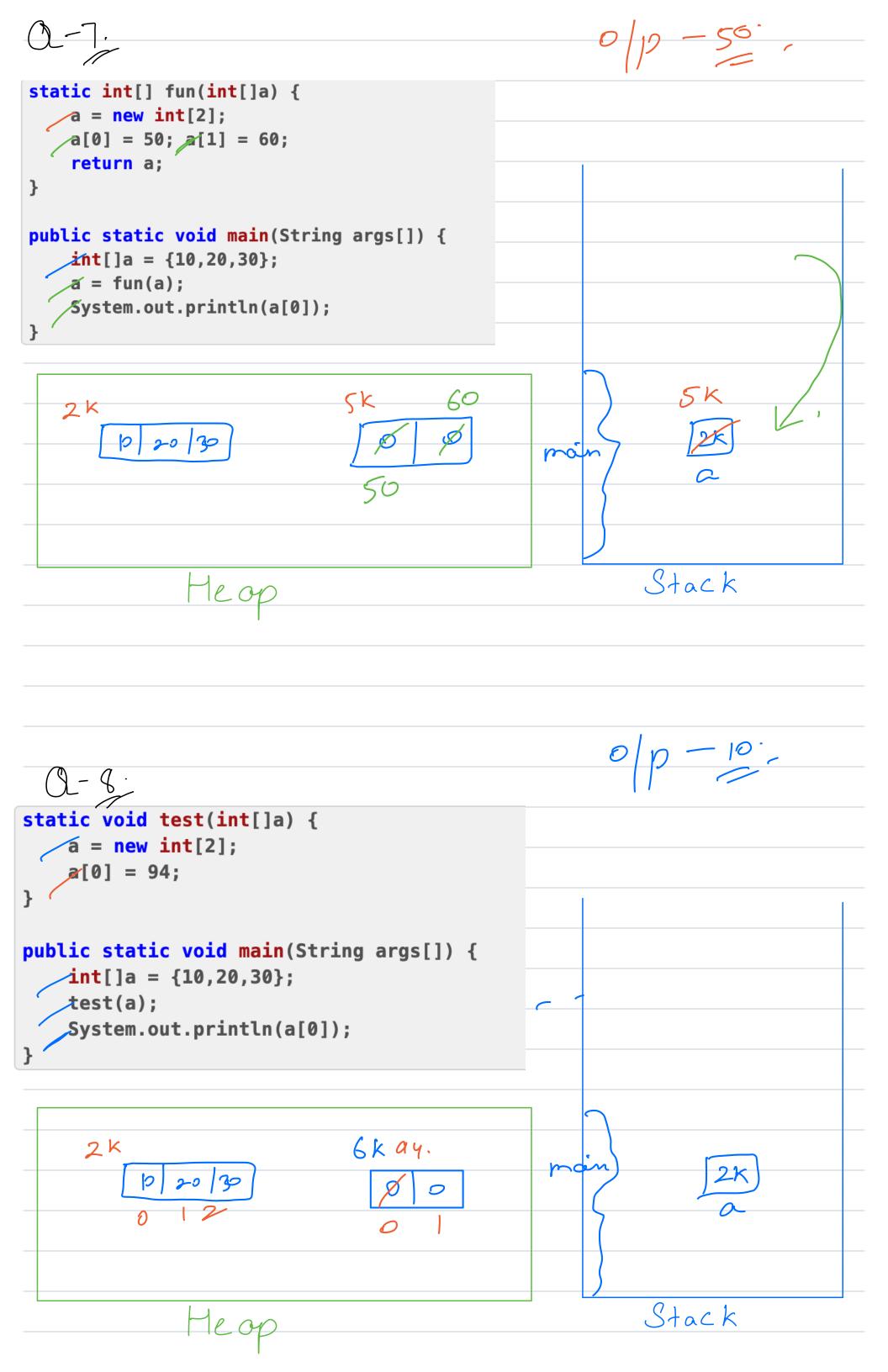






0/p-10. static void test(int[]a) { /a = new int[1]; a[0] = 50;public static void main(String args[]) { int[]a = {10}; test(a); System.out.println(a[0]); 5K 0 Stack Heop static void fun(int[] a) { /a = new int[1]; /a[0] = 100; public static void main() { int[] a = {10, 20, 30}; fun(a); System.out.println(a[0]); 4 K 5K 0 30 Stack Heop





Next	Claes	

The next class will be on "Sorting basics".

•	Data Organization: Sorting helps in organizing data in a specific order, making it easier to search, retrieve, and analyze. For example, alphabetical sorting is commonly
	used for lists of names or words.

• Search Algorithms: Many search algorithms, such as binary search, rely on sorted data to efficiently locate a specific element. Sorting facilitates faster searching by reducing the search space. • Ranking and Statistics: Sorting is used to determine the rank or order of elements based on certain criteria. This is valuable in applications such as sports rankings or financial analysis.