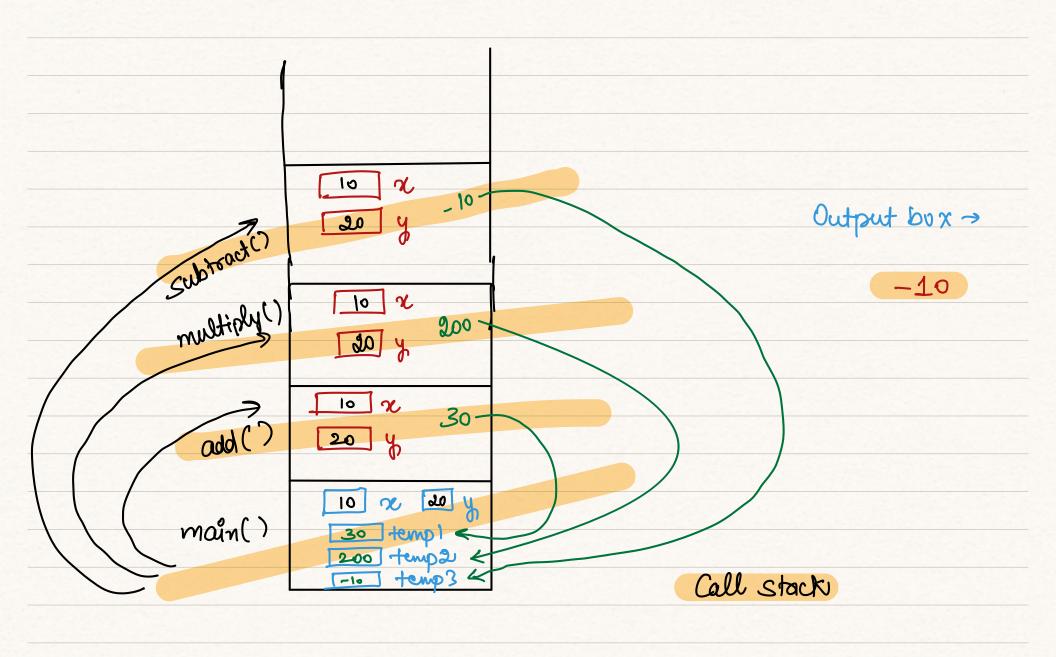
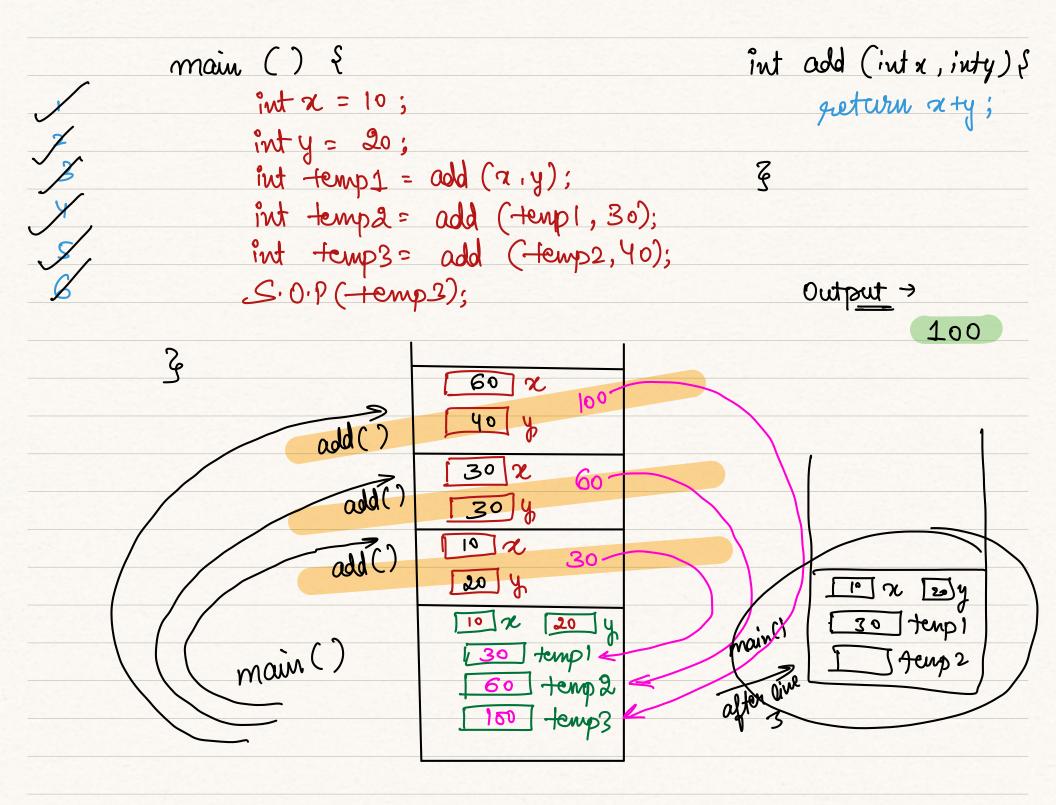
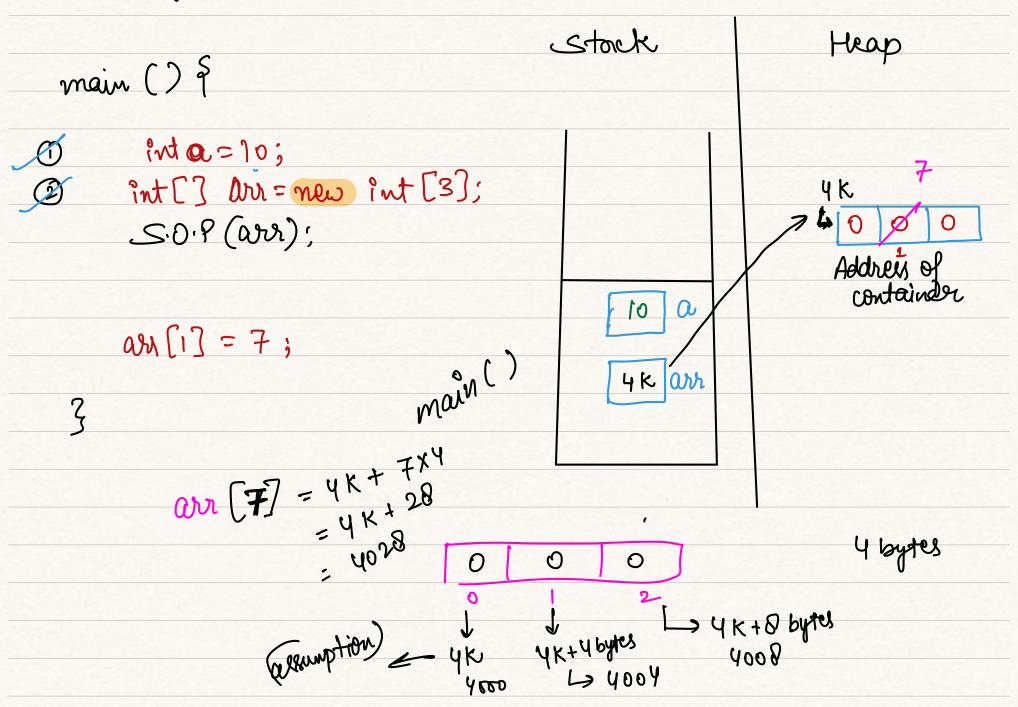


```
int add (intx, inty)?
   Call stack
                                   return 2 ty;
main () §
 int x = 10;
                                    int multiply (intx, inty) &
  int y = 20;
  int templ= add (x,y);
                                    Return x * y;
 int temp2 = multiply (x, y);
int temp3 = Subtract (x,y);
<.0.P (temp3);
                                    int subtract (intx, inty) {
                                       return 2-y;
```

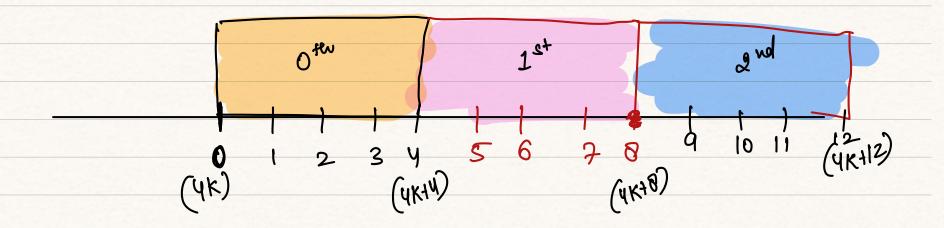




Memory management in JAVA

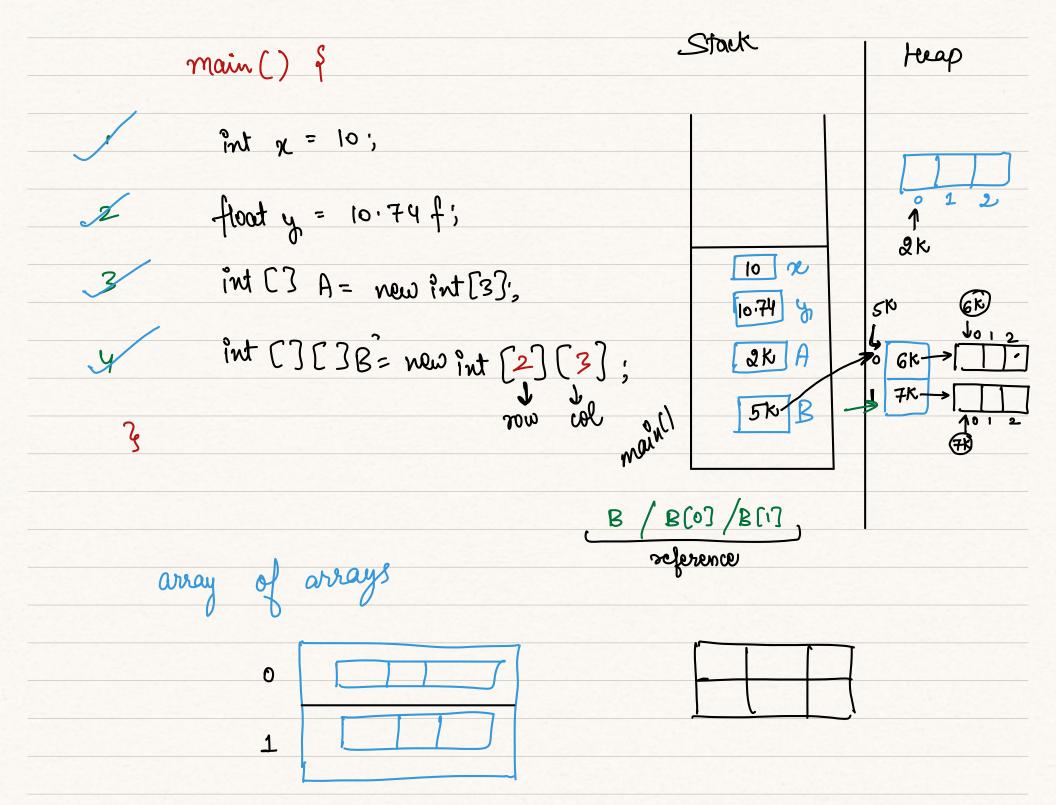


Address of the container is stored in stack and actual container is stored in heap.



- Desimitive data types int, long, froat, double, boolean, char [memory will be assigned in stack]
- 2) the reference / address of containers will also store in stack
- 3 container [Array / Arraylist / Hash Map] will be stored in heap.

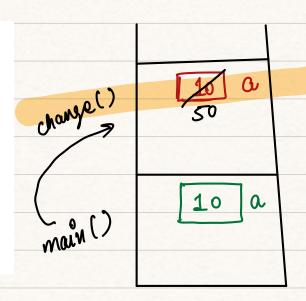
  String

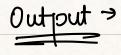


## Predict the output:

```
static void change(int a) {
    a = 50;
}

public static void main(String args[]) {
    int a = 10;
    // change(a);
    // System.out.println(a);
}
```





2K + 0\*4 =) (2K)

main()

Output >

50

main () \$ Stack Heap 1 int [] a = \$10,20,30}; / fun (a); // S.O.P (a[0]); tim() void fun (int[]a) of / a = new int [1];

/ a [0] = 100;

main IK O 10

Swap two variables [wing a third variable]
$$a = 10$$

$$b = 20$$

temp = 10  

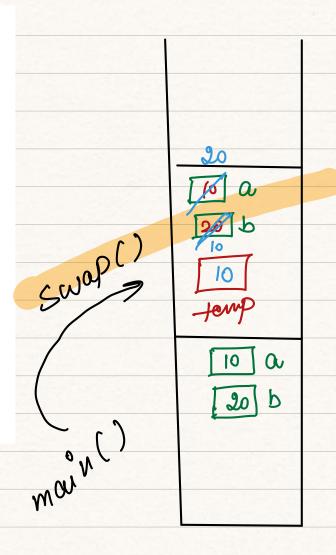
$$a = 20$$
  
 $b = 10$ 

Quiz 4.

## Predict the output -

```
static void swap(int a,int b) {
      /int temp = a;
      /a = b;
      /b = temp;
}

public static void main(String args[]) {
      /int a = 10;
      /int b = 20;
      /swap(a,b);
      /ystem.out.println(a + " " + b);
}
```



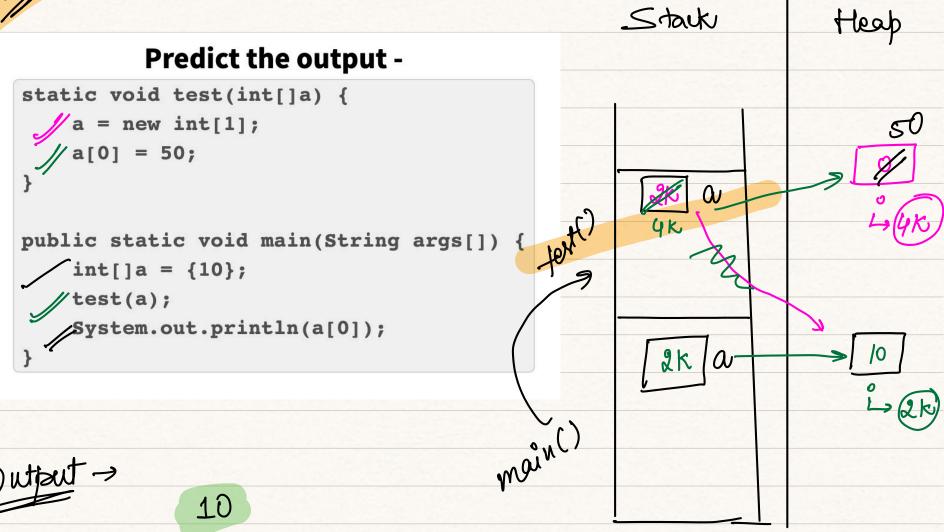
Jui 25

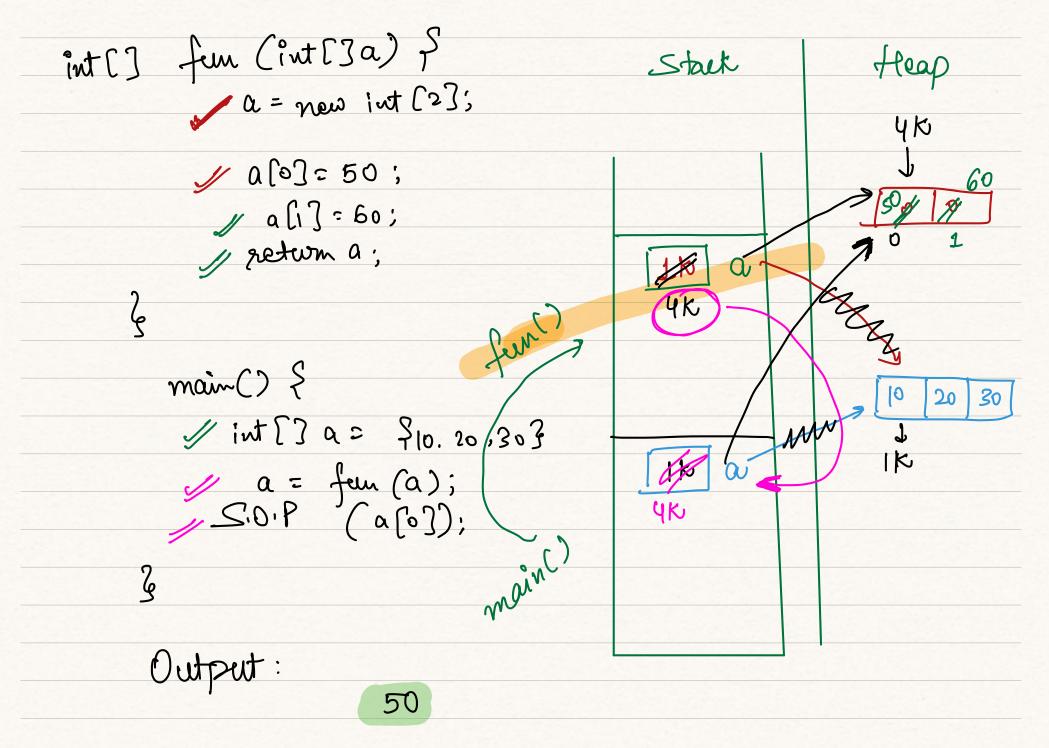
## Stack Predict the output static void swap(int[]a,int[]b) { /int temp = a[0];a[0] = b[0];b[0] = temp; public static void main(String args[]) { int[]a = {10}; int[]b = {20}; 10 //swap(a,b); temp System.out.println(a[0] + " " + b[0]); 1K 0 -> 1K 2K 0[0] main()

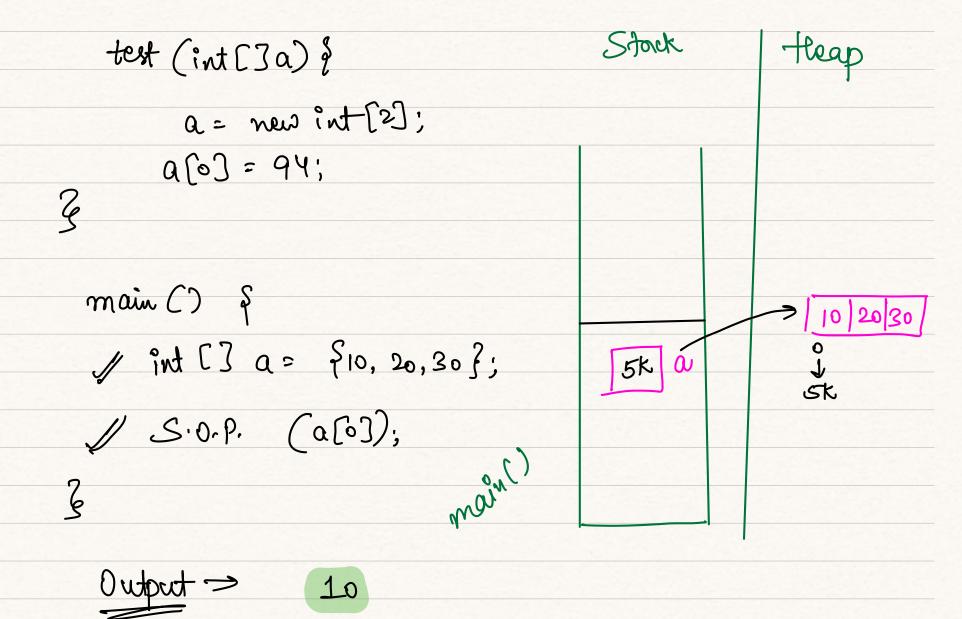
20

10

Out 6.







(long) (S x S x S) (0 5 x 10 5)

(long) S x S x S

solve (double colsins)

double ans = celcius \*9/5 +32

Math. round (ans \*100)/100d

Key volue

Hammap < Integer, Integer> map = - - - -

for Cint i=0; i < A.length; i++) }

if (map.containskey (A[i]) = = true) {
int old freq = map.get (A[i]);
map.put (A[i], old freq+1);

3 else {
map. put (ACi], 1);

3