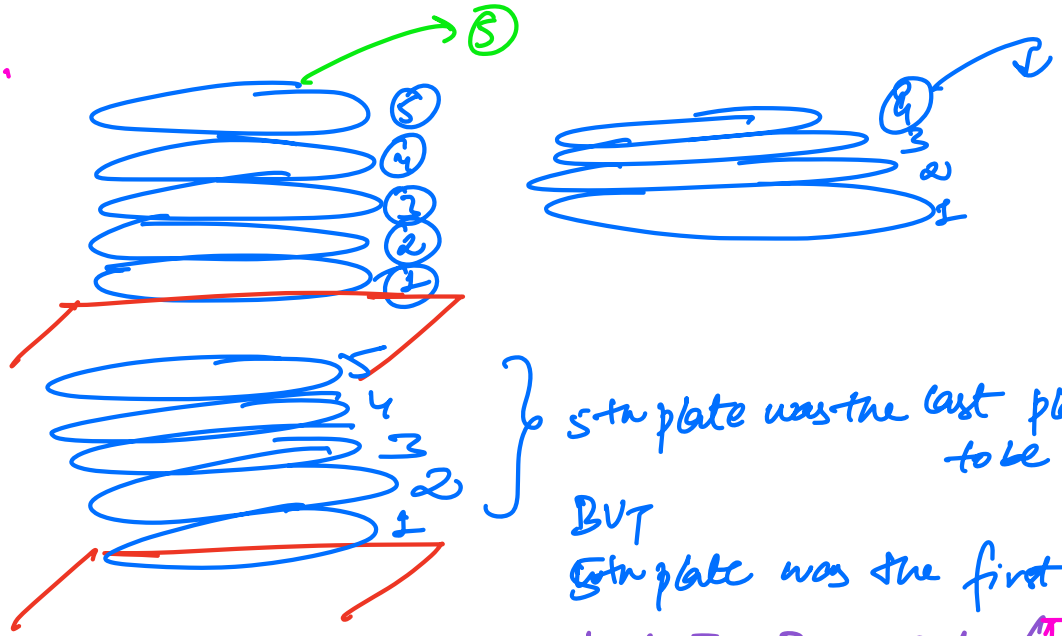
- Ayush is a little occupied. Will be filling in for him tonight.

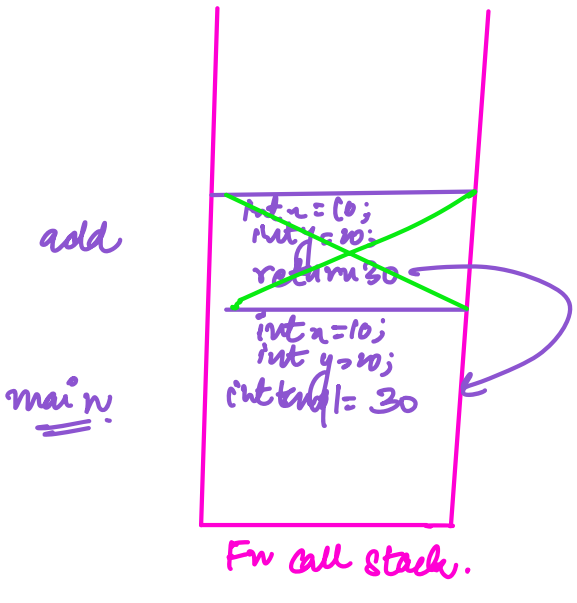
Class starts at 9:05pm.

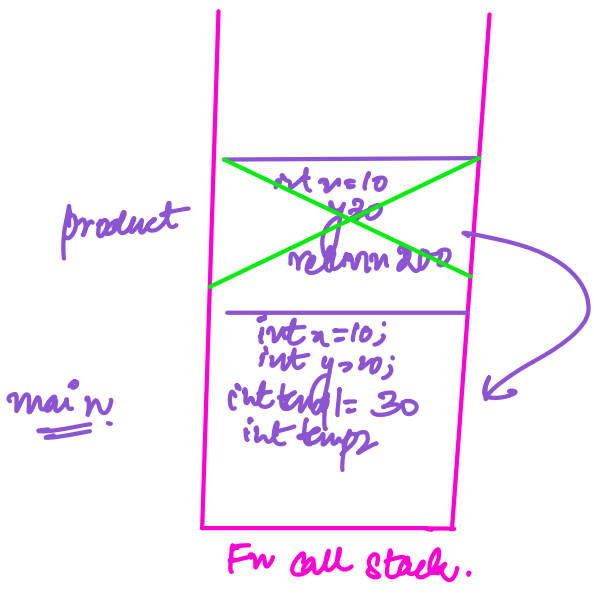
STACK.

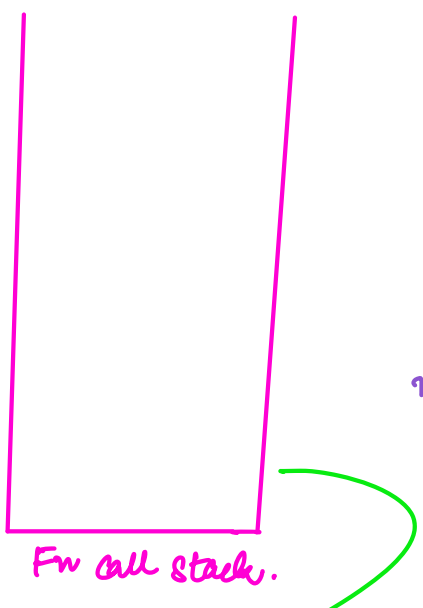


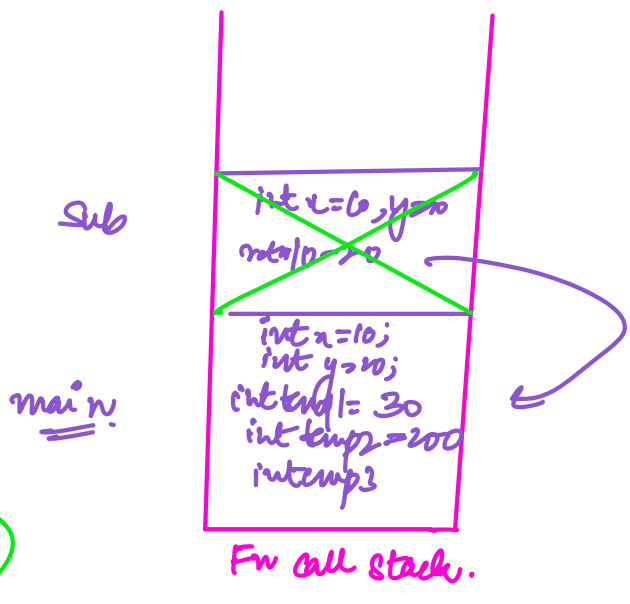
```
int main( ) {
1.      int x = 10;
2.      int y = 20;
3.      int temp1 = add (x,y);
4.      int temp2 = product (x,y);
5.      int temp3 = sub(x,y);
6.      S.O.P ( temp3); // -10.
7.  }
```

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

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

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

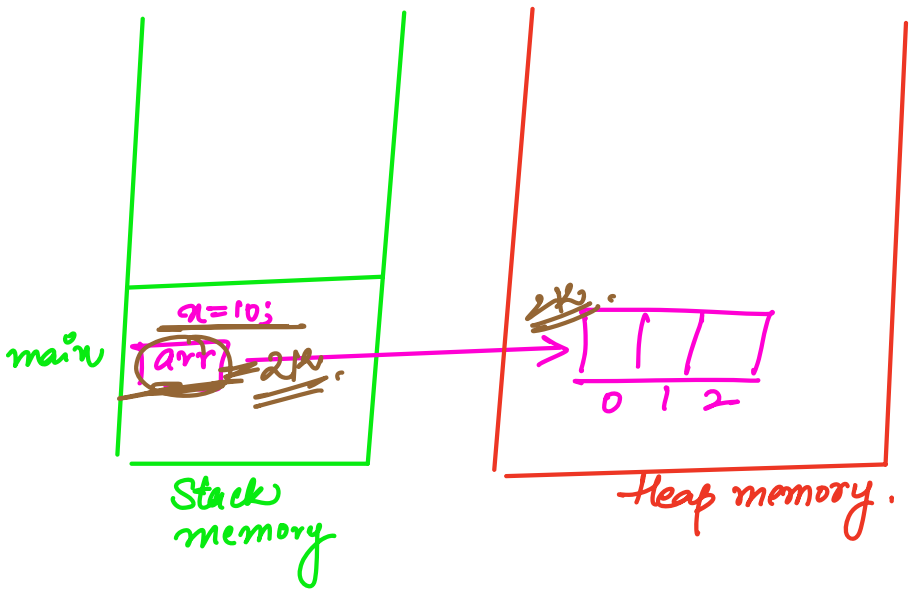




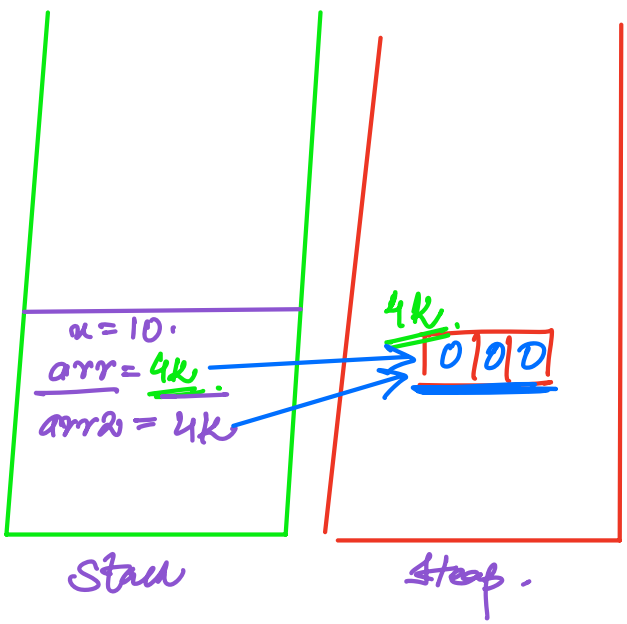




```
void main() {
    int x=10;
    int arr[] = new int[3];
}
```

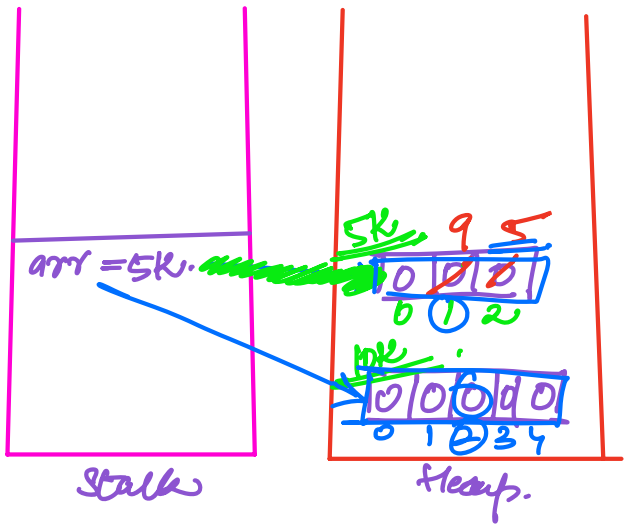



```
main() {
    int x=10;
    int [] arr = new int[3];
    int [] arr2 = arr;
    S.O.Pln(arr);
    S.O.Pln(arr2);
}
```

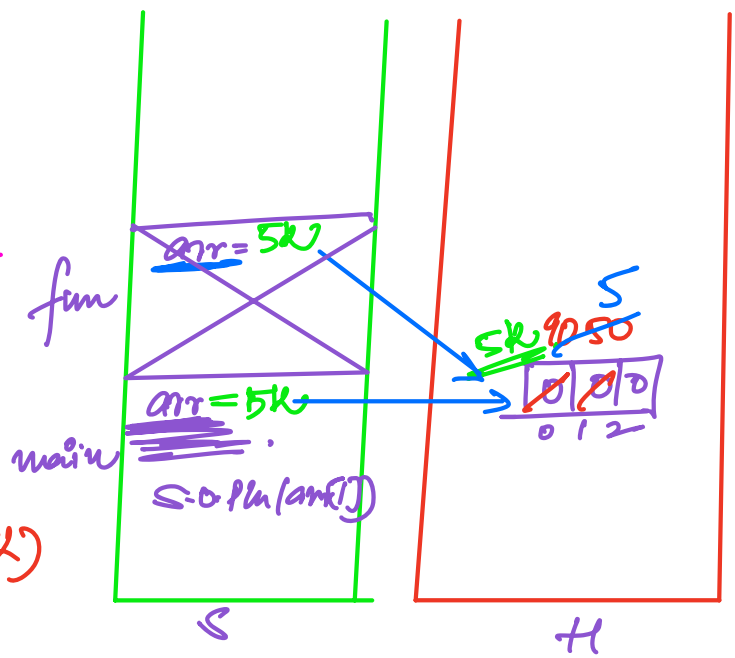


```
main( ) {
    int [] arr = new int [3];
    S.O.Pln(arr); // 5K.
    arr[1] = 9;
    arr[2] = 5;

    arr = new int[5];
    S.O.Pln(arr); //10K.
    arr[2]
}
```

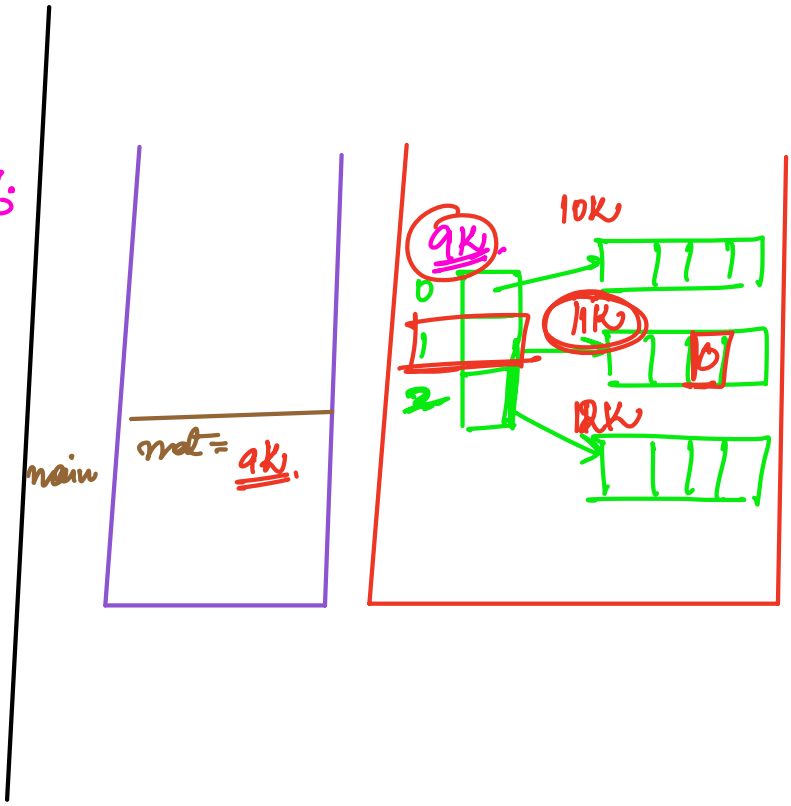
main



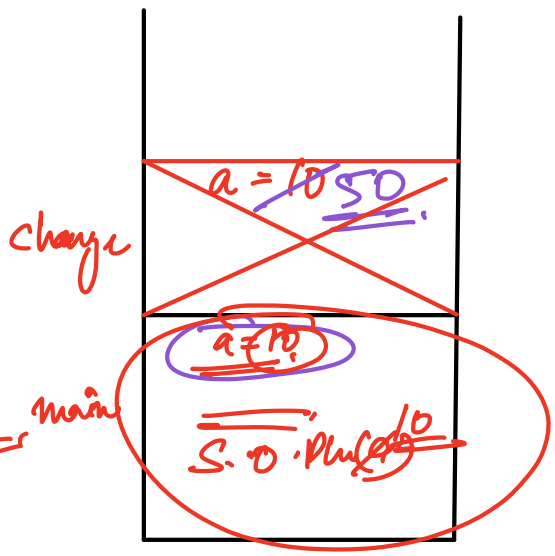

```
fun( int arr[]) {
    S.O.Pln(arr);
    arr[1] = 5;
}
main() {
    int arr[] = new int[3];
    S.O.Pln(arr); // 5K.
    arr[0] = 90;
    arr[1] = 50;
    fun(arr); // fun(5K)
    S.O.Pln(arr[1]);
}
```



```
void main() {
    int [][] mat = new int [3][4];
    S.O.Pln (mat);      //9K
    S.O.Pln (mat[0]);   //11K
    S.O.Pln ( mat[1][3]); //0
}
```

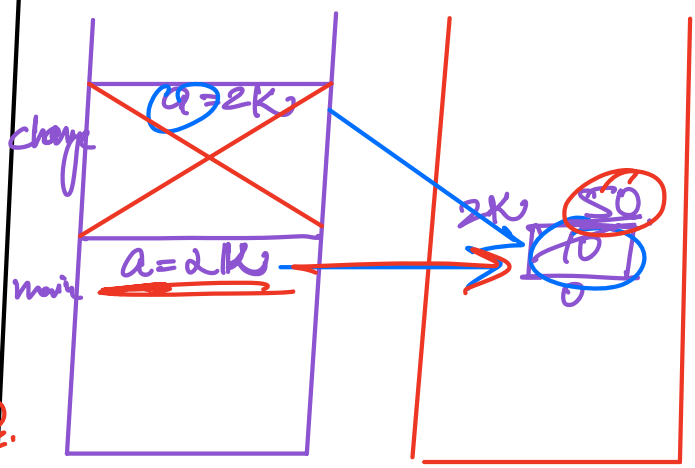



```
change ( int a ) {
    a = 50;
}
void main( ) {
    int a = 10;
    change (a);
    S.O.Pln(a); //10
}
```



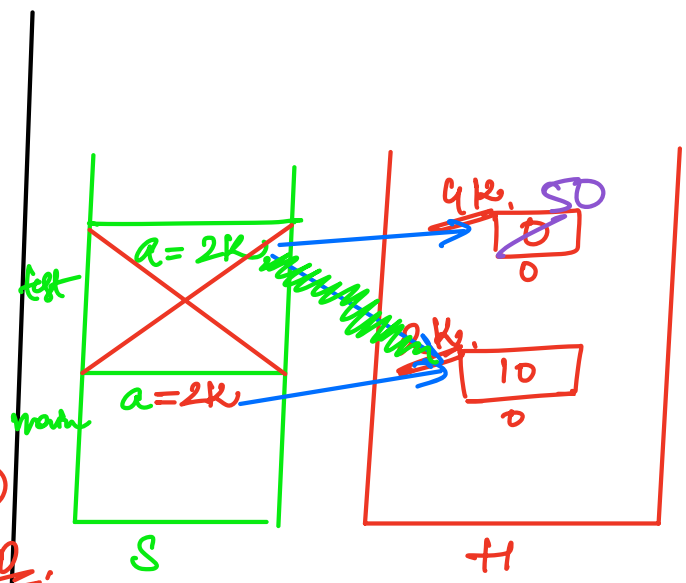
```
change ( int [] a) {
    a[0] = 50;
}

main ( ) {
    int [] a = {10};
    change(a);
    S.o.Pln (a[0]); //50.
}
```

change(2K)

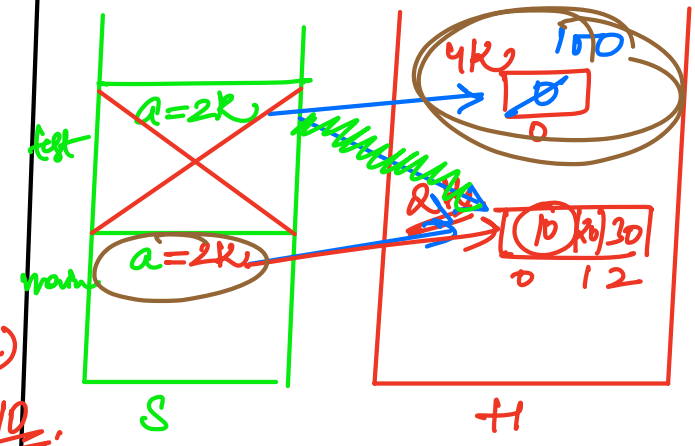


10 : 2~~4~~

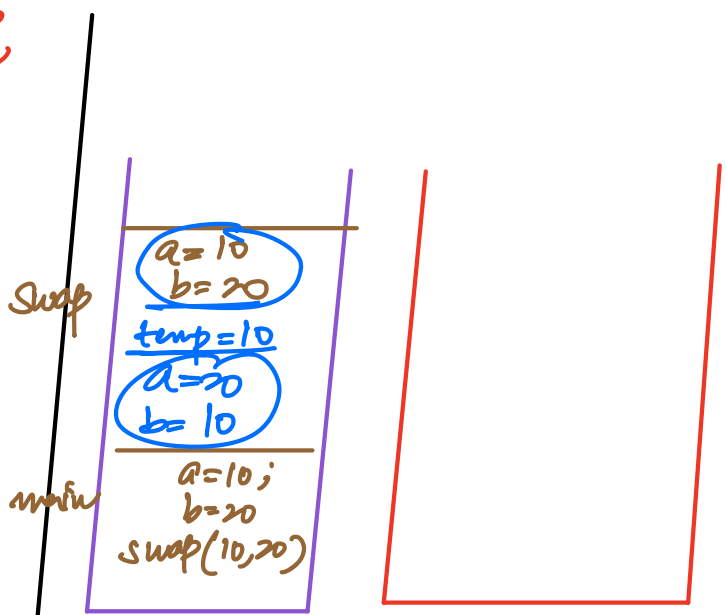
```
void test( int [] a) {
    a = new int [1];
    a[0] = 50;
}

main ( ) {
    int [] a = {10};
    test(a); test(2K)
    S.o.Pln (a[0]); //10.
}
```



```
void test(int [] a) {
    a = new int [1];
    a[0] = 100;
}

main( ) {
    int [] q = {10,20,30}
    test(q); test(2K)
    S.o.pln (a[0]); //10.
}
```

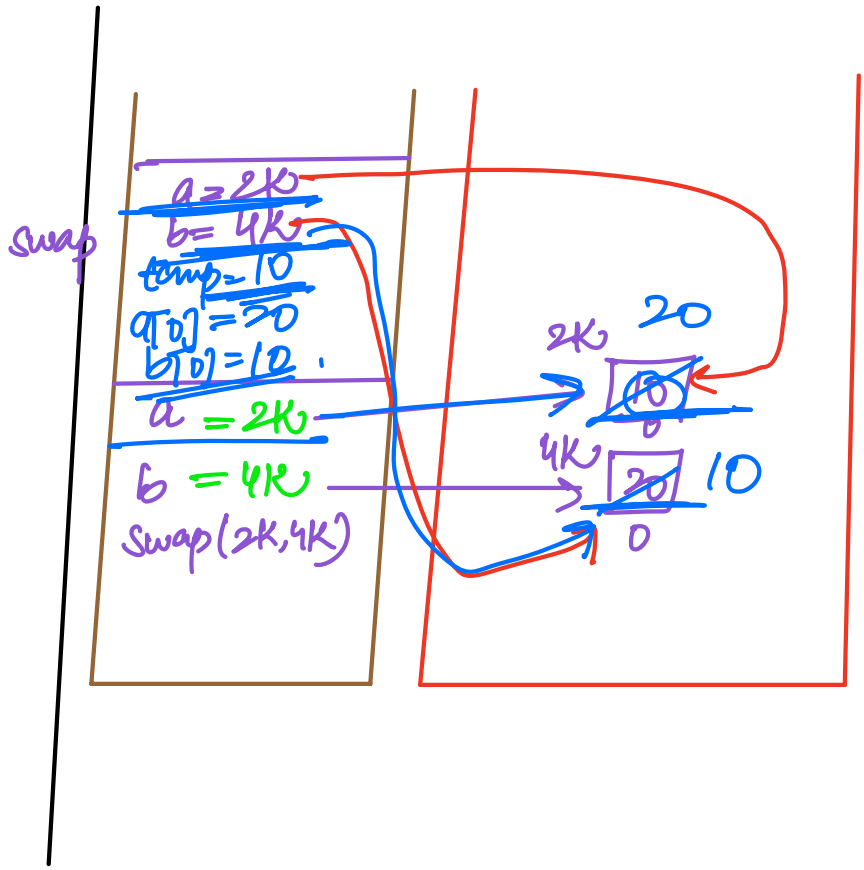



```
static void swap(int a, int b){
    int temp=a;
    a=b;
    b= temp;
}

main( ) {
    int a=10;
    int b= 20;
    swap (a,b);
    S.o.p( a +" "+b);
}
```

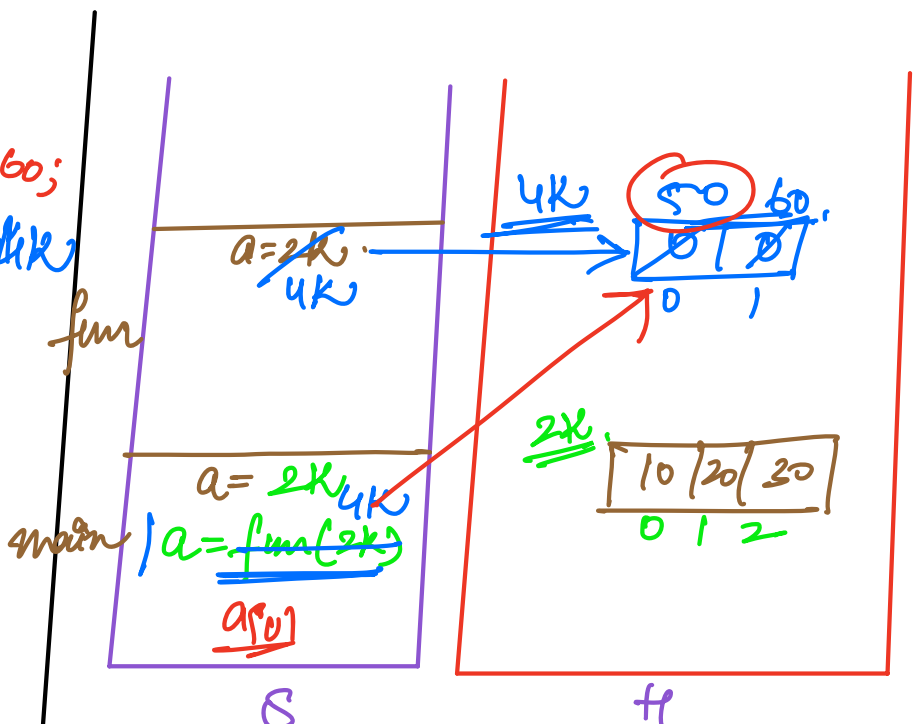


```
static void swap(int[]a, int[]b)
    int temp=a[0];
    a[0]=b[0];
    b[0]=temp.
}
main() {
    int[]a={10};
    int[]b={20};
    swap(a,b);
    S.o.p(a[0]+" "+b[0]);
}
```

20 10.




```
int[] fun(int[]a) {
    a=new int[2];
    a[0]=50; a[1]=60;
    return a; return 4K;
}
main() {
    int[]a={10,20,30};
    a=fun(a);
    S.o.p(a[0]);
}
```



```
static void test(int[] a){
    a = new int[2];
    a[0] = 99;
}

main(){
    int[] a = {10,20,30};
    test(a);        test(2K)
    S.o.Pln(a[0]);  //10
}
```