


② Dereference pa and pb to get access to a and b in `main` function

Main memory

main 	
int a	5 10
int b	10 5
swapByValue	
int* pa	&a
int* pb	&b
int temp	5

pa and pb
were used to
access a and b
in the `main`
function

```
void swapByValue(int* pa, int* pb);
```

```
int main(void) {  
    int a = 5, b = 10;  
  
    swapByValue(&a, &b);  
  
    return 0;  
}
```

```
void swapByValue(int* pa, int* pb) {  
    int temp = *pa; // temp = *(&a) = a  
    *pa = *pb;      // *(&b) = *(&a) → b = a  
    *pb = temp;     // *(&b) = temp → b = temp  
}
```