HW11

1) Give one example (JUST ONE) that will show that pass by value, pass by reference, pass by name, pass by value result are all different.

2) Here is a swap function in C++ that will swap two integers:

```c++
void swap (int& a, int& b)
{
    int temp = a;
    a = b;
    b = temp
}
```

Suppose we have the following: int A[2] = {2, 3}, i = 1
If the above swap function used pass by name:

(1) swap(A[i], i) will swap A[1] = 3 and 1 = 1
(2) Swap( i, A[i]) will crash (index out of bounds)

a) Given a language that only has pass by value and pass by name as parameter passing method. Write a swap function that will swap two integers. You cannot use pointers or object etc.

b) Java only has pass by value, Write a swap function that will swap two integers.