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Lab 03

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Writing assignment 3

1)

a) int[] a is an array which is a type of reference type. This is a situation of call-by-reference. Therefore, when it calls to a method, it will pass by reference instead of value, and the change made in the method would change the value that the reference links to.

b) same as a. object is a type of reference, so it would follow the same rule of call-by-reference.

c) This is a situation of call-by-value. The changes being done in the called method, is not affected in the calling method. Without return, it will not change anything.

2)

public <T> void bubbleSort( Comparator<T> c) {

boolean swapped = true;

while (header.hasNext() && swapped)

{

swapped = false;

int j = 0;

while (j + 1 != limit)

{

if (c.compare(a[j + 1], a[j]) < 0)

{

swapped = true;

T temp = a[j + 1];

a[j + 1] = a[j];

a[j] = temp;

}

j++; }

limit = j; }

}