Quiz10 - Results



Attempt 1 of 1

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Attempt Score	9 / 10 - 90 %
Overall Grade (Highest Attempt)	9 / 10 - 90 %

Question 1 2 / 2 points

Which of the following headers is correct to swap two double values (eg. x and y).

- public static void swap(double x, double y)
- \checkmark public static void swap(double [] data) // where data[0] = x and data[1] = y
- public static void swap(double [] data, int i, int j)

//where data[i] = x and data[j] = y

public static void swap(Double x, Double y) //where Double is a class for //primitive double type, and Double objects are immutable

Question 2 2 / 2 points

What is the task of the unknown method, where x is positive integer?

```
//precondition: x>0
public static int unknown(int x, int y){
   if (x==1)
      return y;
   return y + unknown(x-1, y);
}
```

- \checkmark method is working fine and calculates the product of x and y
 - there is syntax error

	there	is	logical	error.
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method is working fine and calculates the remainder of y by x

Question 3 2 / 2 points

Fill the blank in the following method that given an array, it returns the biggest index of lowest value in the array:

```
public static int findIndexOfLowest(int[] arr){
   int min=0;
   for(int j=1;j<arr.length;j++)
       if(_____)
       min=j;
   return min;
}</pre>
```

- arr[j] < arr[min]
- arr[j] >= arr[min]
- ✓ arr[j] <= arr[min]</pre>
 - arr[j] > arr[min]

Question 4 1 / 1 point

Which of the following statements is NOT correct?

- Binary search can be implemented by recursive methods.
- Sequential search is a linear algorithm but binary search is logarithmic one.
- ✓ Applying binary search is always more efficient algorithm than sequential search
 - Bubble sort is better than selection sort if the data are almost sorted

Question 5 1 / 1 point

Time complexity is a means of finding the most efficient algorithm to solving a given problem.



Question 6 0	/ 1 point
Which of the following statements is NOT correct?	
A recursive method calls itself	
A recursive method must have base case	
A recursive method is always better than iterative method for solving a given tas	k.
A recursive method has always an overhead for the function/method calls.	
Question 7	/ 1 point
When there are more than a solution for a problem, the solution with the lowest time cois the best algorithm (solution) amongst them.	mplexity
✓ True	
False	