Quiz 2: Methods

Question 1: Method Overload

Consider the following Java code:

```
public class punchcard {
    public static int add(int a, int b) {
        return a + b;
    }
    public static double add(double a, double b) {
        return a + b;
    }
    public static void main(String[] args) {
        int result1 = add(2, 3);
        double result2 = add(2.5, 3.7);
        System.out.println(result1);
        System.out.println(result2);
    }
}
```

What would be the output of the code?

- A) 5 and 6
- b) 5 and 6.2
- c) 5.0 and 6
- d) 5.0 and 6.2
- e) error

answer: b

Question 2: Recursive Method

Consider the following recursive Java method:

The factorial method should break out of the recursion when the value of n is 0 or 1. Otherwise, it should return the product of n and the result of calling factorial with n-1.

} }

What should be placed instead of blank?

- a) break
- b) main()
- c) return
- d) return 0
- e) return 1

 $answer\colon \operatorname{d}$