

Honor Pledge

On my honor, I have neither given nor received any unauthorized aid on this quiz.

By typing your first and last name in the space provided below you are electronically signing to indicate that:

- (1) You are the person who is taking this quiz.
- (2) You read and understood the Honor Pledge and you agree to be bound by it.

Write your answer below:

Xinhao Luo

Clear

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Questions 1 and 2 refer to the Java code below:

```
class Account {
    int amount = 0;
    void deposit(int x) {
        amount = amount + x;
    }
}

class DepositTask implements Runnable {
    public void run() {
        synchronized (this) {
            Main.act.deposit(10);
        }
    }
}

public class Main {

    static Account act = new Account();

    public static void main(String arg[]) throws InterruptedException {
        ExecutorService pool = Executors.newCachedThreadPool();

        pool.execute(new DepositTask());
        pool.execute(new DepositTask());
        pool.execute(new DepositTask());

        pool.shutdown();
        pool.awaitTermination(60, TimeUnit.SECONDS);
    }
}
```

Question 1. (2pts) What are all possible values for `act.amount` at the end? Enter the values in increasing order, on one line, separated by commas, and with no whitespace, e.g., -1,2,4,8

Write your answer below:

Press TAB to indent. Press ESC to advance from answer area.

10, 20, 30

Clear

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Question 2. (2pts) Instance field `amount` in `Account` has

Select one:

- ☐ public visibility
- ☐ protected visibility
- ☐ private visibility
- ☒ package visibility

Clear

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Question 3. (2pts) Generic Java class `MyList` is defined as follows:

```
public class MyList<T extends Number> {
    // Type parameter T is bounded by Number
    // MyList uses interface of Number, e.g., intValue(), doubleValue()
    ...
}
```

Is `MyList<Integer> p = new MyList<Integer>();` a valid instantiation of `MyList`? Note: In Java `Integer` is a subclass of `Number`.

Select one:

- ☒ yes
- ☐ no

Clear

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Is `MyList<String> p = new MyList<String>();` a valid instantiation?

Select one:

- ☐ yes
- ☒ no

Clear

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Question 4. (1pts) Consider this C++ code:

```
bar x;
bar y = x;
```

At assignment `y = x`, C++ calls

Select one:

- ☐ assignment operator `bar::operator=(bar&)`
- ☒ copy constructor `bar::bar(bar&)`

Clear

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Question 5. (1pts) Now consider this slightly different C++ code:

```
bar x, y;
y = x;
```

At assignment `y = x`, C++ calls

Select one:

- ☒ assignment operator `bar::operator=(bar&)`
- ☐ copy constructor `bar::bar(bar&)`

Clear

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Question 6. (2pts) Now suppose this was Java code:

```
bar x, y;
y = x;
```

At assignment `y = x`, Java calls

Select one:

- ☒ neither
- ☐ assignment operator `bar.operator=(bar)`
- ☐ copy constructor `bar.bar(bar)`

Clear

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By clicking "Submit" you are confirming that you have read, understand, and agree to follow the Academic Integrity Policy.

Submit

Select Submission Version:

Version #1 GRADE THIS VERSION

Do Not Grade This Assignment

Note: This version of your assignment will be graded by the instructor/TAs and the score recorded in the gradebook.

Autograding Total (Without Hidden Points)	
10 / 10	Autograding Total (With Hidden Points)
Test 1 Honor Pledge signature submission	Show Details
Test 2 Question 1 submission	Show Details
Test 3 Question 2 submission	Show Details
Test 4 Question 3a submission	Show Details
Test 5 Question 3b submission	Show Details
Test 6 Question 4 submission	Show Details
Test 7 Question 5 submission	Show Details
Test 8 Question 6 submission	Show Details
2 / 2	HIDDEN: Test 9 Question 1
2 / 2	HIDDEN: Test 10 Question 2
1 / 1	HIDDEN: Test 11 Question 3a
1 / 1	HIDDEN: Test 12 Question 3b
1 / 1	HIDDEN: Test 13 Question 4
1 / 1	HIDDEN: Test 14 Question 5
2 / 2	HIDDEN: Test 15 Question 6
Test 16 Check Honor Pledge	Show Details
Test 17 Check Time Limit	Show Details