

Quiz 2



Name: \_\_\_\_\_

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Describe the steps, as best you can, for creating a `JFrame` for your path calculator application.

Based on your submission for the first lab assignment, where was your `main` method located (what class), and what did your `main` method do?



(a) When running a Java program from the command line, what does the `-cp` argument represent?

(b) What is the purpose of the manifest file required to make a `.jar` file?

(c) Explain what an ANT target is.

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Suppose you are asked by a potential employer to explain (in five sentences or less) the key benefits of requirements analysis. Give the best answer you can to this question.

Possible grades for this quiz: Hire on the spot (10), Put on short-list (9), Second interview (8), Wait list for 2<sup>nd</sup> interview (7), Do not hire (4)



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Write a brief definition for the following elements found within a Use Case:

(a) Actor

(b) System

(c) Scenario

(d) Goal

Draw the UML class diagram for the following code twice. In the first diagram, show the relationship between the **Folder** and **MP3** classes using an association connector. In the second diagram, show the relationship between the **Folder** and **MP3** classes using an aggregation connector. Be sure to show all of the other relationships using the appropriate connectors.

```
public abstract class DesktopItem {
    // ...
}

public interface Playable {
    // ...
}

public class Folder extends DesktopItem {
    private List<MP3> music;
    // ...
}

public class MP3 extends DesktopItem implements Playable {
    // ...
}
```

Circle all of the following statements that are consistent with the general rules of associations between elements within a Communication Diagram:

- Actors must not communicate with Entity Elements.
- Boundary Elements may communicate with other Boundary Elements.
- Entity Elements must not communicate with other Entity Elements.
- Control Elements may communicate with any other type of element, but not Actors.
- Boundary Elements may communicate with Actors.
- Boundary Elements may communicate with Entity Elements.

Do not circle any of the above statements that are inconsistent with the general rules for associations.