Spring 2024-2025 CSSE 220

## CSSE 220 – Object-Oriented Software Development Rose-Hulman Institute of Technology

## Worksheet 12

Name	e (Print): Section:		
1.	What are 2 most common ways to measure code execution?  1) 2)		
2.	2. Complete code to mesaure the execution time using nano time:		
2	<pre>long start = System; getFactorial(5); // code long end = System; // measure the difference System.out.print();</pre>		
3.	2 main characteristics of a tail-recursive method:  1) 2)		
4.	True/False All swing containers use Layout Managers to size and position their components		
5.	1) JPanel defaults to, placing components left-to-right		
	2) JFrame defaults to with five regions (NORTH, SOUTH, EAST, WEST, CENTER)		
6.	What Layout will you use to position components of equal size as a 2x2 table?		
7.	What method did we use to place a frame location in the center of the screen?		
8.	Choose the correct statement:		
	1) Swing is a single-threaded UI toolkit: all updates to Swing components are performed in a special single thread		
	2) Swing is a multi-threaded UI toolkit: all updates to Swing components are performed synchronously and in parallel		
9.	() is used to schedule code to run later on the Event Dispatch Thread (EDT)		

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10.	All Swing components are designed to be accessed only from		
11.	Define an event:		
12.	Event-Driven Versus Procedural: You call m	ethods in sequence	
	: Your code reacts to events when they occur		
13.	Which JPane option to chose? Align column A		
	Column A	Column B	
	1. INFORMATION_MESSAGE	a. No Icons	
	2. PLAIN_MESSAGE 3. ERROR_MESSAGE	b. Serious problem	
	4. WARNING_MESSAGE	c. Something needs attention d. Neutral information	
14.	Select the correct statement:		
	1) Action Listener is a class		
	2) ActionListener is an Interface		

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15. Identify each type of Event Listeners:

 $1. \ \underline{\hspace{1.5cm}} : \ button.addActionListener(e-> setValues());$ 

2. \_\_\_\_\_: public class MyHandler implements ActionListener ...;