Exception Examples

Complete this table. In the "Checked?" column, identify each exception as "checked" or "unchecked". Look at the Java API docs for help.

Checked Exception - an exception that you are required to handle (usetry - catch) or declare as thrown.

Unchecked Exception - an exception that you are <u>not</u> required to handle (try - catch) or declare.

Exception	Checked?	Example
NullPointerException		
ClassCastException		
ArrayIndexOutOfBounds Exception		

		`List<String> list = new ArrayList<>( );`
		`list.add("foo");`
		`String foo = list.get(2);`

NumberFormatException		
		`Scanner scanner = new Scanner("four");` `int n = scanner.nextInt( );`

		`// continue the code above:`
		`String a = scanner.next();   // a = "four"`
		`String b = scanner.next() ;`

		`FileReader fr = new FileReader(` `            "doesnotexist.foo");`

		`Map<String,Double> prices =`
		`        new HashMap<String,Double>( );`
		`map.put("small", 20.0);`
		`map.put("large", 30.0);`
		`// Get price of a large drink.`
		`// Java implicitly calls .doubleValue()`
		`// to convert from Double to double`
		`double amount = map.get("LARGE").getValue();`

		`// What exception should be thrown?`
		`Purse purse = new Purse(-1);`
		`// or here:`
		`purse.insert( new Coin(-1,"Baht") );`