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Course Progress Course > Readings/Videos > Reading 4: Specifications > Questions Ø. Ø Previous Questions □ Bookmark this page throw all the things! 1/1 point (graded) Examine this code for analyzing some Thing objects: static void analyzeEverything() { analyzeThingsInOrder(); static void analyzeThingsInOrder() { analyzeOneThing(t); } catch (AnalysisException e) { static void analyzeOneThing(Thing t) throws AnalysisException { //  $\dots$  maybe go off the end of an array AnalysisException is an unchecked exception. Which exceptions could be thrown by a call to analyzeEverything? Check all that apply. ✓ ArrayIndexOutOfBoundsException IOException ✓ NullPointerException AnalysisException ✓ OutOfMemoryError Explanation  $Array Index Out Of Bounds Exception \ , \ Null Pointer Exception \ , and \ Out Of Memory Error \ are unchecked exceptions; they could be thrown by the property of the prope$  $Analysis \textbf{Exception} \ \ is unchecked, but there is no code in \ \ analyze \textbf{ThingsInOrder} \ \ to throw it, and any of them thrown by \ \ analyze \textbf{One} \textbf{Thing} \ \ will be \ \ \textbf{Description}.$ caught by the try-catch. IOException is a checked exception, so these methods would be required by the compiler to declare it if it could be thrown. 0 **1** Answers are displayed within the problem a terrible thing 1/1 point (graded) What might happen if analyzeOneThing throws an AnalysisException in this code? Check all that apply. The program might crash ✓ We might fail to call analyzeOneThing on all of the Things in ALL\_THE\_THINGS

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## Explanation

Notice how the try-catch is outside the for loop in the code.

If we are only partially through our iteration over ALL\_THE\_THINGS, the exception will bubble up out of the loop and prematurely end our iteration.

If we wanted to continue iterating past Thing s that cause AnalysisException s, we would need to put the try-catch inside the loop.

 $The program will not crash, because we do catch the {\color{red} Analysis Exception } before it can propagate further up the call stack. }$ 



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