

Weather.com Challenge

Assignment for the candidate:

1. Write a function that takes three sides of a triangle and answers if it's equilateral, isosceles, or scalene. Include logic to validate the kind of triangle and whether the inputs are a triangle.
2. For a single-linked (forward only) list write a function that returns 5th element from the end of the list. The list can only be walked once (reverse, length, or size of this list cannot be used). We recommend writing your own very simple linked list implementation unless you are prepared to discuss exactly what the language provided list function is doing.
3. Given two lists, write a function that answers if all elements of one list are in the other, where order does not matter. It is preferable to not use an intrinsic function.

Overall Requirements:

- Read the problem assignments carefully.
Read it again after you've coded your solution to make sure you solved the stated problem.
- Code in your program of choice.
A functional language, like Scala or Clojure, is preferred if you are confident in its use, otherwise, any language is ok, Python, Java, Go, etc..
- Code should be provided as a project in a zip or tar file or cloneable from an external public repo.
- Code should be written with a project file (ie. maven, sbt, leiningen, gradle, etc.)
 - o There should be no external dependencies except testing framework (junit, scalatest, etc.)
 - o The project should build, and run unit tests:
As in `> sbt test`
- All questions should have supporting unit tests that provide good coverage and corner cases. Don't skimp on unit tests - this is an evaluation of completeness and attention to detail in coding. Be sure your code is right!
- These are simple programming problems designed for candidates to show their programming style.
We expect to see
 - o Thoughtfulness and simplicity in design.
 - o Clarity, elegance and style in code.
 - o Correctness and Completeness demonstrated through unit testing.
- Don't rush through this exercise, it is a critical part of our evaluation.

Example Usage

```
> sbt test
```