

CSCI 485 Programming Languages

Assignment 2

(Due: Wednesday, January 27)

Answer each of the following questions in your own words.

1. There are many ways to describe programming languages. Considering how programming languages are described, summarize how programming languages may be categorized and criteria used in categorization?
2. LISP began as a pure functional language but gradually acquired more and more imperative features. Why?
3. What data structures are built into Lua?
4. What array structure is included in C# but not in C, C++, or Java?
5. What is the primary application for Objective-C?
6. How does the typing system of PHP and JavaScript differ from that of Java?
7. What data structure does Python use in place of arrays?
8. Explain two reasons why pure interpretation is an acceptable implementation method for several recent scripting languages.
9. Why, in your opinion, do new scripting languages appear more frequently than new compiled languages?
10. Use a single sentence to summarize the main functionality of the following applications and systems and list programming languages used to develop the applications or systems
 - a. WordPress (<https://wordpress.org/>)
 - b. Odoo (<https://www.odoo.com/>)
 - c. Android (<https://source.android.com/>)
 - d. Bullet Physics Library (<http://bulletphysics.org>)
 - e. Accord.Net (<http://accord-framework.net/>)
 - f. ns-3 (<https://www.nsnam.org/>)
 - g. node.js (<https://nodejs.org/>)
 - h. puppet (<https://puppetlabs.com/>)