

Sebastia Chapter 2 Review Questions

2. Arrays and recordz

5. Computers were expensive. Reducing programming effort was more important than execution speed. It was still better than other options so it was ok. Technology wasn't advanced enough to make faster practically.

6. Floating-point arithmetic and indexing. This strongly influenced the evolution of programming languages because it allowed languages like Fortran to efficiently implement loops and mathematical operations without needing to rely on machine code.

7. 1954.

8. Scientific and engineering computations.

9. Assembly language constructs.

10. Subroutines.

11. IF-THEN-ELSE statement.

14. They believed AI could be used to model and process natural language, leading to advancements in machine translation and computational linguistics.

15. Lisp was developed at MIT by John McCarthy.

20. Built in input and output facilities.

21. Backus-Naur Form

22. FLOW-MATIC

23. 1959.

24. records

25. U.S. Department of Defense

36. A nonprocedural language is a programming language where the user specifies *what* should be done rather than *how* to do it. Declarative rather than imperative.

37. facts and rules

46. interactive television

51. client-side web development

52. JavaScript is primarily used for client-side scripting, while PHP is used for server-side scripting.

57. There is no simplicity branch at the end of the selectable segments of code, which has cost enumerable programming errors. C# also allows other data types in the switch statements other than int.

59. XML document and an XSLT stylesheet.

60. XML document, an HTML document, or plain text, depending on the XSLT rules.