

CS 4100, Fall 2020

Quiz 2 Review Sheet

Quiz will be Monday, October 19, 2020

Covers sections 2.1-6 in MacLennan Book

Be able to answer:

1. What were the main goals of FORTRAN?
2. What are the three phases of compilation?
3. How are parameters passed to subprograms in FORTRAN and what are the pros and cons of the methods?
4. What is aliasing, why is it used, and what are its pros and cons?
5. What is COMMON, why is it used, and what are its pros and cons?
6. What is EQUIVALENCE, why is it used, and what are its pros and cons?
7. How are subprograms implemented?
8. What are imperative and declarative statement and how do they differ?
9. What is the difference between actual and formal parameters?
10. Why is the integer data type considered overworked?

For each of the principles we have seen, be able to:

1. State the principle
2. Explain what it means and why it is important
3. Give an example of something we have seen that violates the principle
4. Give an example of something we have seen that illustrates the principle or complies with it

Principles:

- Security
- Structure
- Portability
- Syntactic Consistency
- Defense of Depth
- Impossible Error
- Preservation of Information
- Information Hiding