

CSC 306 WEEK 3 QUIZ STUDY GUIDE

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Here are the concepts that you need to understand while preparing for the Week 3 Quiz.

1. LANGUAGE AND LANGUAGE IMPLEMENTATION

Implementation of languages, translation, interpretation, compilation; virtual machines; source code and object code, the linking process and linkers.

2. DIFFERENCES BETWEEN C++ AND JAVA

Pointers, the pointer operators `&` and `*`; default parameters, value types for objects, reference parameters and value parameters; operator overloading; multiple inheritance.

C++ terminology: base classes; derived classes.

3. THE C++ IO CLASS HIERARCHY

Know the inheritance relationships among the different classes

```
ios    istream    ostream    istream
ifstream    ofstream    fstream
istringstream    ostreamstream    stringstream
```

Understand the difference between formatted and unformatted IO. Know how to use the extraction and insertion operators; also the various member functions for input and output such as

```
get    unget    putback    peek
put
```

Know how to do IO operations on files and strings. In particular, know how to open a file for reading and writing, and know how to check if an operation on a file or an IO stream was successful.