Overview of Final Exam (CIS 400)

Rust:

* Ownership
* Borrowing
* Lifetime
* Mutable variables

Go:

* Variadic functions
* Multiple assignments
* Map

C++:

* Extern keyword\* Code and define
* Polymorphism\* Code and define
* Inline function
* Nested class

Class list – a linked list \*node

{ public:

List() {}

Private:

Class Node

{

Public:

Int data;

Node\* next;

Node\* prev;

}; // end of class Node

Node\* head;

Node\* tail; }

C#:

* Property
* Indexer
* Delegate
* Pointer
* Polymorphism
* Parameter passing

Java:

* Interface
* Multiple inheritance
* Dynamic binding
* Exception handling

Perl:

* Hash
* Arrays
* Pattern Matching
* Constructor of a class

Python:

* Multiple assignment – article assignment, 1 statement
* List comprehension
* Tuple vs list
* Module
* Style: indentation
* Map
* Pattern matching

Parallel Computing:

* Grid Computing
* Cluster Computing
* Cloud Computing

MPI:

* Basic mechanisms (Set and receive function)

OpenMP:

* Basic Component – data directed, parent directed?

CUDA:

* Kernel function – how we define
* What is a basic configuration – Define

🡪

[CPU] [GPU]

Host 🡪 Device

* OpenCL (Concept Question)