CptS 122 – Data Structures
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Your Name: _____Chun-Peng James Chen_____   TA's Name: _____Alexander Lao_____
ID#: _____11530998_____   Section #: _____3_____

Take Home: Quiz 5 (15 pts) – C++, Data Structures, and OOP

1. (5 pts) In your own words, what is a function *template*?

It's a way to define a function that can do the similar thing with different type of data. We don't need to define the data type of return value or input arguments, instead we remain it as some other notation which indicates that it can take more than one type of data.

3. (5 pts) In your own words, what is a *queue*?

It's a variant of linked list, which has property of FILO (First in Last out). And each node in the queue would have a pointer pointing to the next node or null pointer if it is a node in the tail of queue.

4. (5 pts) In your own words, what is a *destructor*?

It's a function that defines how to deal with the object when it is out of the scope. Usually we would define a destructor to delete all the member object within that specific object.

Instructor: Andrew S. O'Fallon