CS1020E Tutorial + Lab 05

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Tutorial Solutions

"Tutorial 5 – Linked List"

Question 1: Linked List Operations

What is the purpose of the class `GuessWhatThisIs`?

- **Answer:**

Question 1: Linked List Operations

What is the purpose of the class `GuessWhatThisIs`?

• **Answer:** it is an iterator (i.e. points to an object and can move from one node to another).

Question 1: Linked List Operations

What does each operation in mysteryA(), ..., mysteryL() do?

And what is the STL equivalent?

- mysteryA() $\longrightarrow$ empty().

- mysteryB() $\longrightarrow$ size().

- mysteryC() $\longrightarrow$ front().

- mysteryD() $\longrightarrow$ back().

- mysteryE(T& elm) $\longrightarrow$ push_back(T& elm).

- mysteryF(T& elm) $\longrightarrow$ push_front(T& elm)

Question 1: Linked List Operations

What does each operation in mysteryA(), ..., mysteryL() do?

And what is the STL equivalent?

- mysteryG() $\longrightarrow$ pop_front().

- mysteryH() $\longrightarrow$ pop_back().

- mysteryI() $\longrightarrow$ begin().

- mysteryJ() $\longrightarrow$ end().

- mysteryK(iterator,T& elm) $\rightarrow$ insert(iterator,T& elm).

- mysteryL(iterator) $\longrightarrow$ erase(iterator)

End of Tutorial Discussion

Note: Detailed solutions (i.e. the file T5_ans.pdf) will be released soon at

http://www.comp.nus.edu.sg/~stevenha/cs1020e.html

Take Home Lab 03

Hint: Use Linked List.

Let's take a short break!

Extra Practice

- https://open.kattis.com/problems/aaah

- https://open.kattis.com/problems/mixedfractions

- https://open.kattis.com/problems/everywhere

Any Questions?

See you next week!