

Friday, 09 February 2018

LAB DEMO 03

C++ STL list demo

- constructor
- push_back, pop_back, push_front :O, pop_front :O
- insert, erase
- front, back
- begin, end
- <http://en.cppreference.com/w/cpp/container/list>

C++ STL stack, queue, deque demo

- constructor
- Stack: top, push, pop
- Queue: front, back, push, pop
- Deque: front, back, push_back, pop_back, push_front, pop_front
- <http://en.cppreference.com/w/cpp/container/stack>
- <http://en.cppreference.com/w/cpp/container/queue>
- <http://en.cppreference.com/w/cpp/container/deque>

Own Stack Implementation Demo

- A preview for PS2 D
- We will not show the details for Queue and/or Priority Queue for now 😊
- We will first show a (truncated) SinglyLinkedList class that only show Insertion at head and Removal of head item (other details not necessary for this demo)
 - Scrutinize that implementation
- We will then show an example of creating a (our own) Stack class that inherit SinglyLinkedList 😊

VisuAlgo Training Mode

PS2 is clearly about List and its variants + PQ :O

Make sure that you understand the explanation in:

<https://visualgo.net/en/list?slide=1> (until the last slide)

You can use VisuAlgo Online Quiz training mode to check your basic understanding about Linked List, Stack, Queue, Deque on “infinite” number of random questions:

<https://visualgo.net/training?diff=Hard&n=5&tl=5&module=list>

(Now the Hard mode is opened again for public :O...)

PS2 Status (as of today)

Name	A	B	C	D :O
Group A	AC	AC	AC	AC
Group B	AC	AC	AC	
Group C	AC	AC		
Group D	AC			
Have not tried: Group E	??			



Midterm Test material is up to here + *a bit of* PQ

PSe(s)

Doubts regarding PS1 ??

Doubts regarding PS2 ??