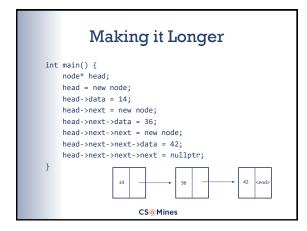


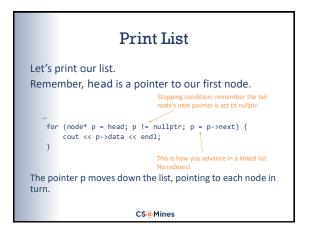
Make a Linked List	
<pre>class node { public: int data; node* next; };</pre>	
<pre>int main() { node* head; head = new node; head->data = 14; head->next = nullptr; }</pre>	The -> operator lets us dereference the pointer head and access the member variables of the node pointed to in one step. head->data is equivalent to (*head).data
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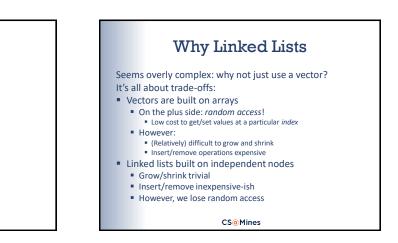


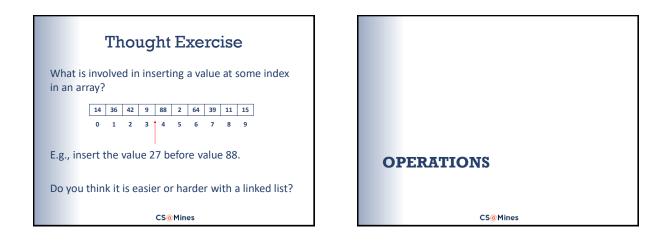
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Why linked lists?

INTERLUDE

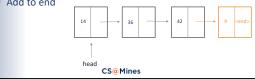


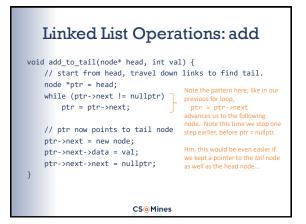


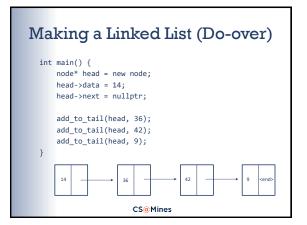


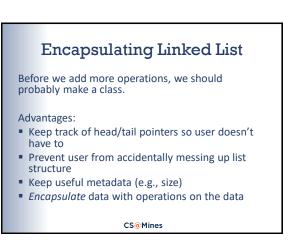


Add to end

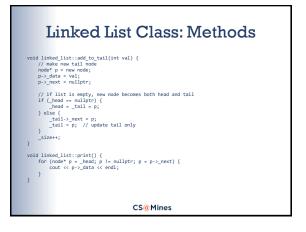








Linked List Class: Declaration class linked_list { public: void add_to_tail(int val); void print(); // more to come! private: class node { public: int _data; node* _next; . This declares a class that can only be used within the linked_list class great for our purposes, because user doesn't need to know about it! }; Note the initializers on these variables; only allowed in C++ 11 and later. We're using these in node* _head = nullptr; node* _tail = nullptr; int _size = 0; }; place of a default constructor. CS@Mines





Up Next

- Friday, January 18
 - Project 1 Personality Test assigned
- Monday, January 21 Martin Luther King, Jr. Day – No class
- Wednesday, January 23
 - Linked lists, part 2
 - Reading: Chapter 14.4 14.6

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