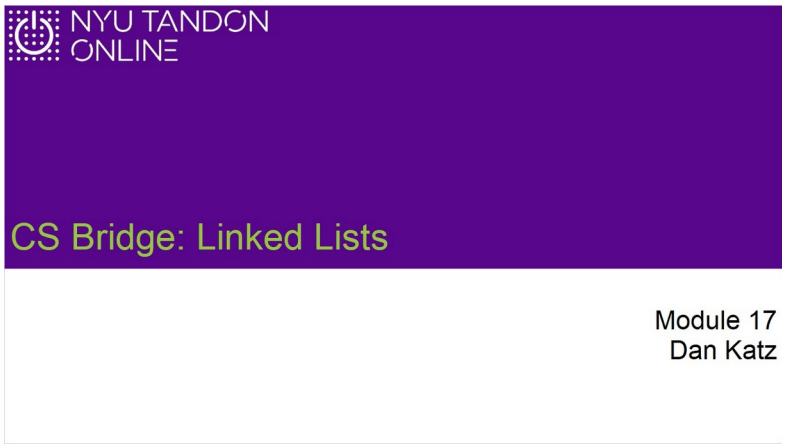
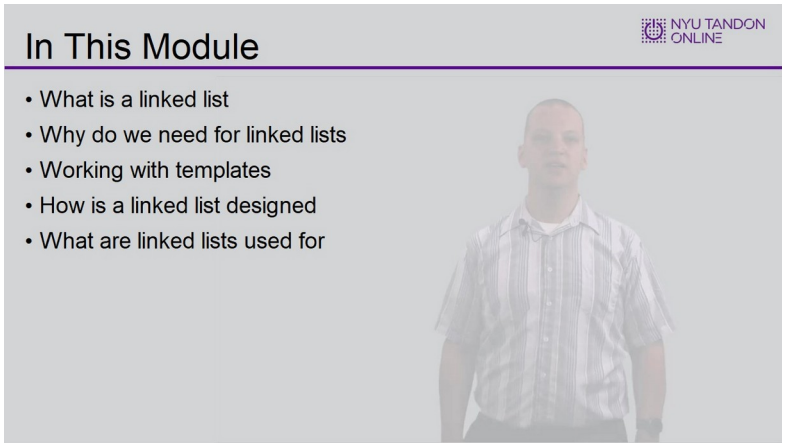
Module 17 Linked Lists

1. Module 17

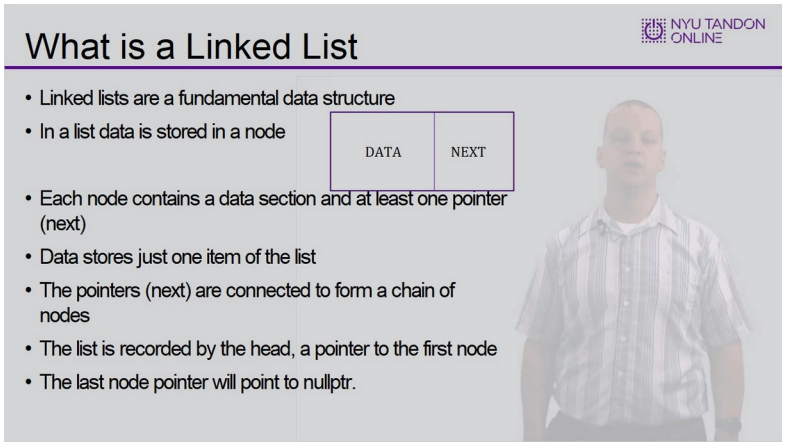
1.1 CS Bridge: Linked Lists



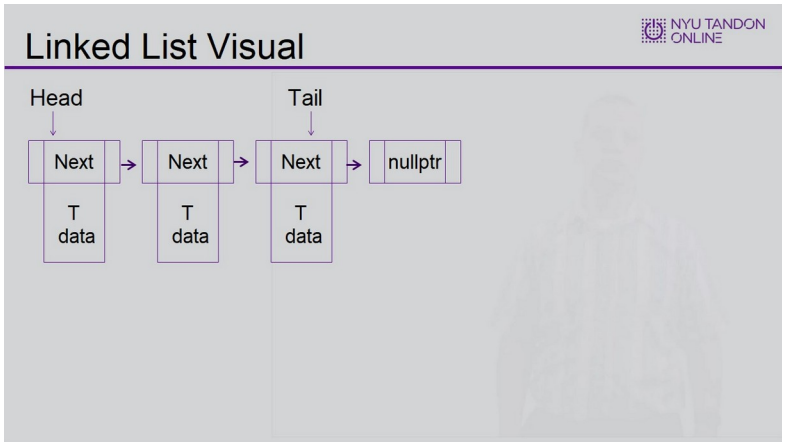
1.2 In this module



1.3 What is a linked list



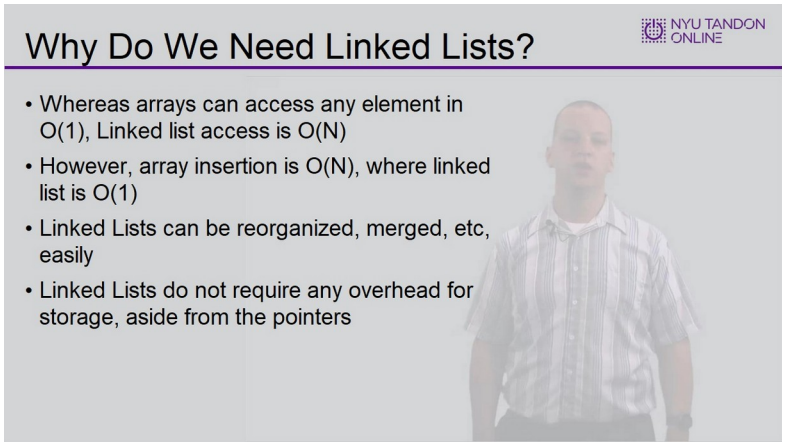
1.4 Linked list visual



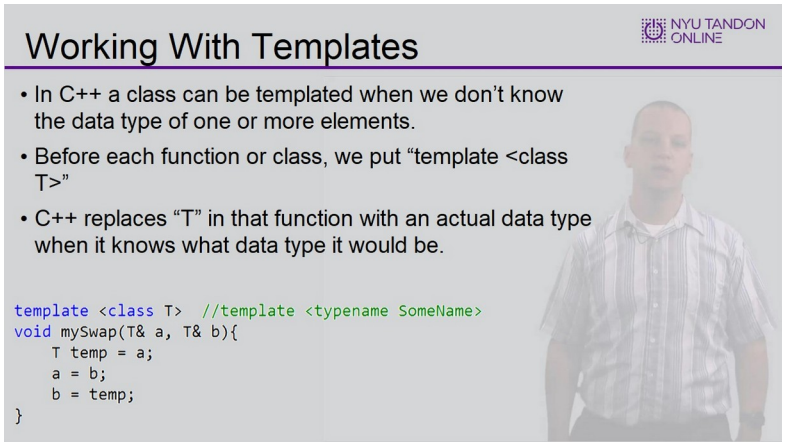
Notes:

http://www.cs.usfca.edu/~srollins/courses/cs112-f08/web/notes/linkedlists/ll2.gif

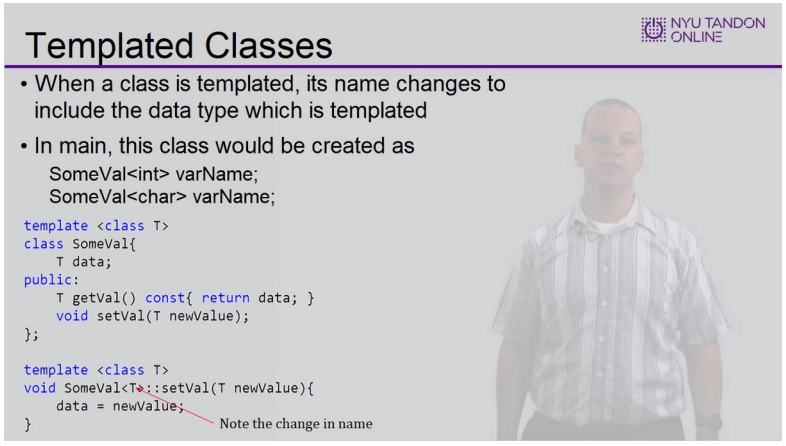
1.5 Why do we need linked lists



1.6 Working with templates

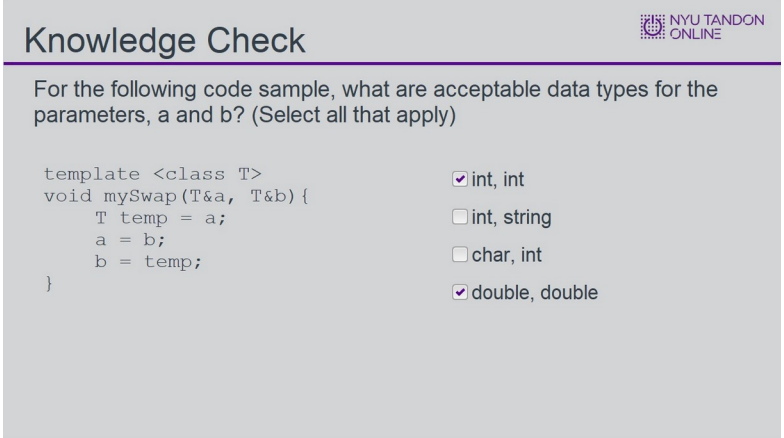


1.7 Templated classes



1.8 Knowledge Check

(Multiple Response, 10 points, 1 attempt permitted)



Correct	Choice
X	int, int
	int, string
	char, int
X	double, double

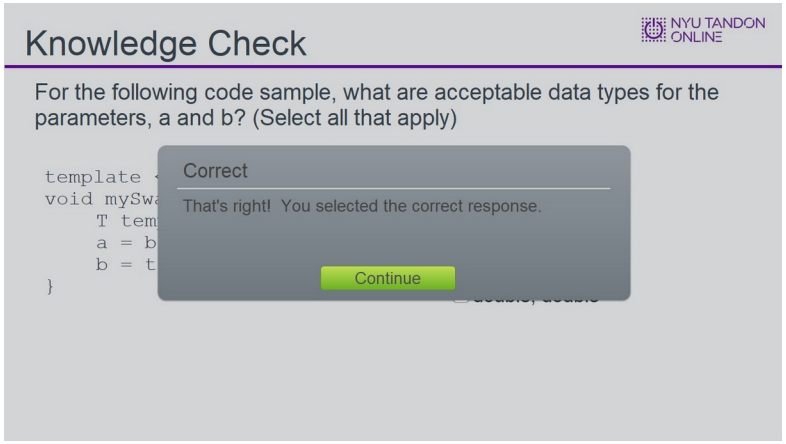
Feedback when correct:

That's right! You selected the correct response.

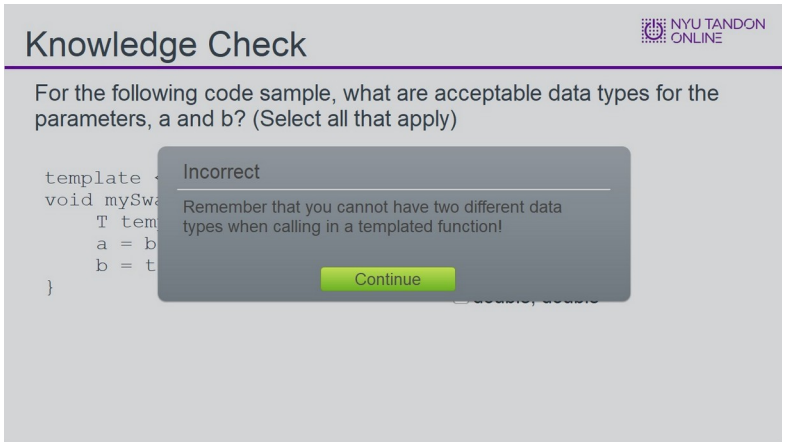
Feedback when incorrect:

Remember that you cannot have two different data types when calling in a templated function!

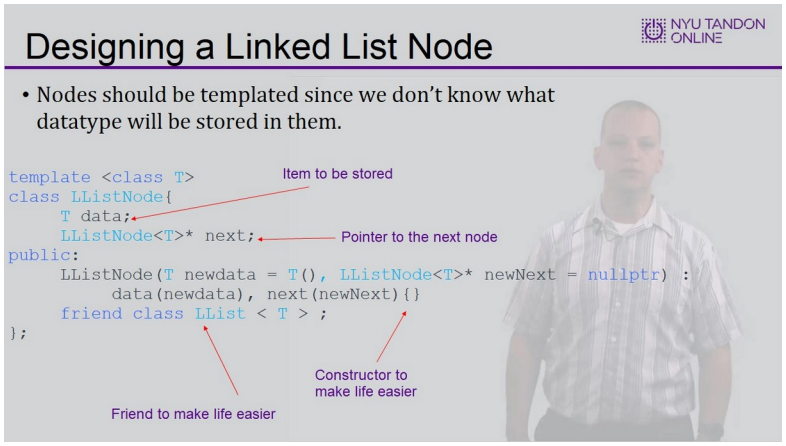
Correct (Slide Layer)



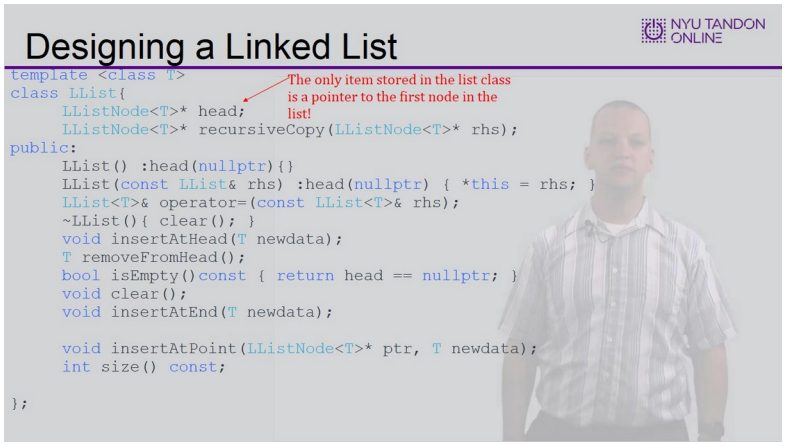
Incorrect (Slide Layer)



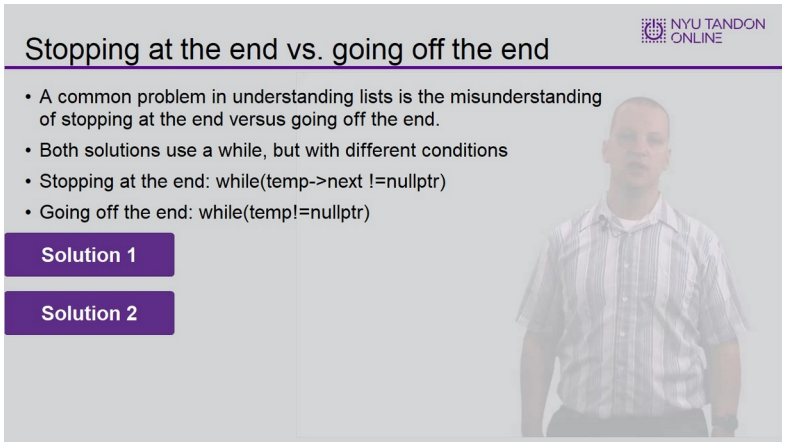
1.9 Designing a linked list Node



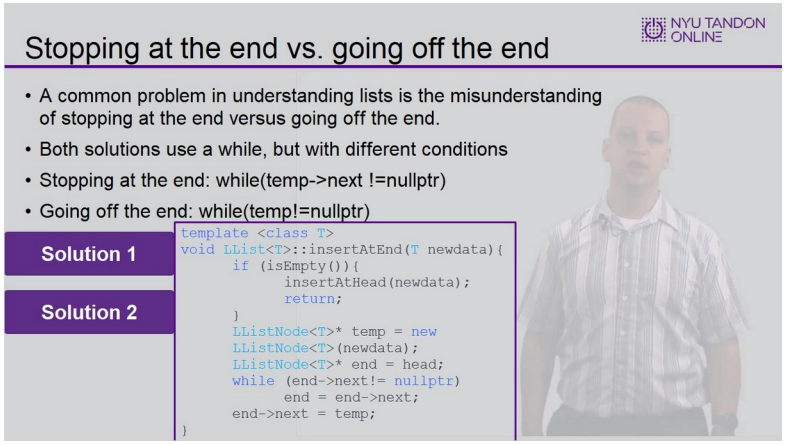
1.10 Designing a linked list



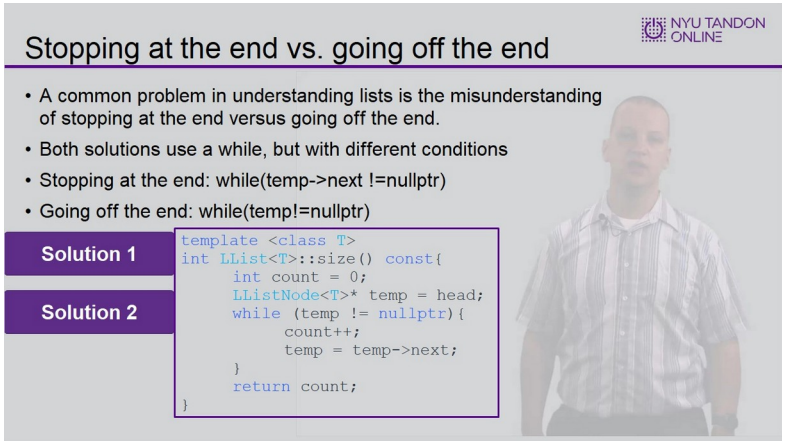
1.11 Stopping at the end vs. going off the end



Solution 2 (Slide Layer)

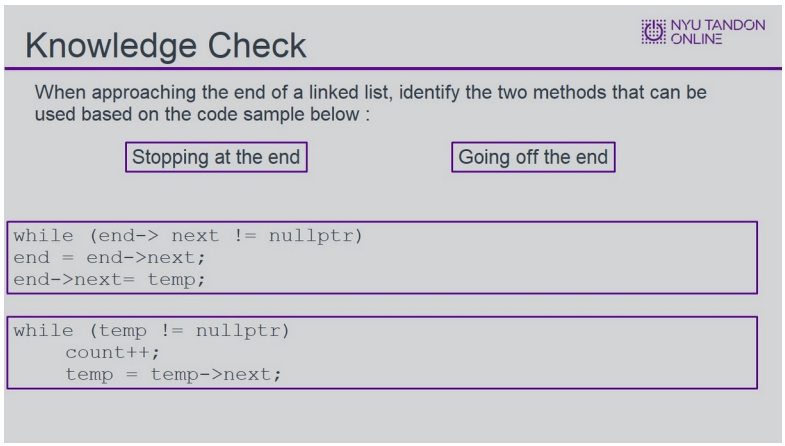


Solution 1 (Slide Layer)



1.12 Knowledge Check

(Drag and Drop, 10 points, 4 attempts permitted)



Drag Item	Drop Target

Stopping at the end	while (end-> next != nullptr)
	end = end->next;
	end->next= temp;

Going off the end	while (temp != nullptr) count++;

temp = temp->next;

Drag and drop properties
Return item to start point if dropped outside the correct drop target
Snap dropped items to drop target (Stack random)
Delay item drop states until interaction is submitted

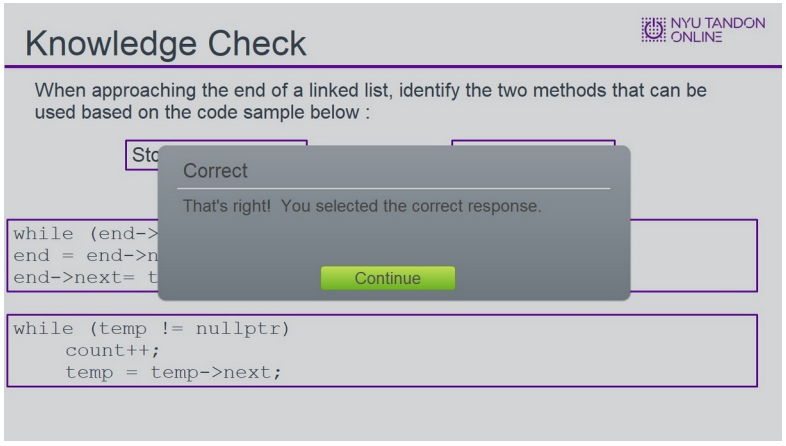
Feedback when correct:

That's right! You selected the correct response.

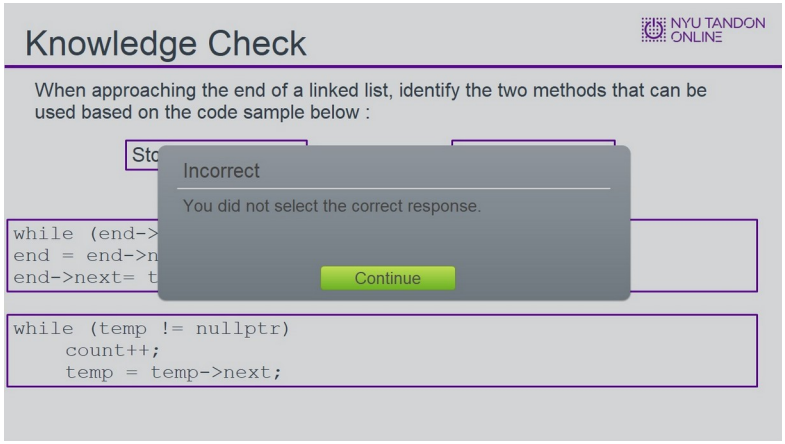
Feedback when incorrect:

You did not select the correct response.

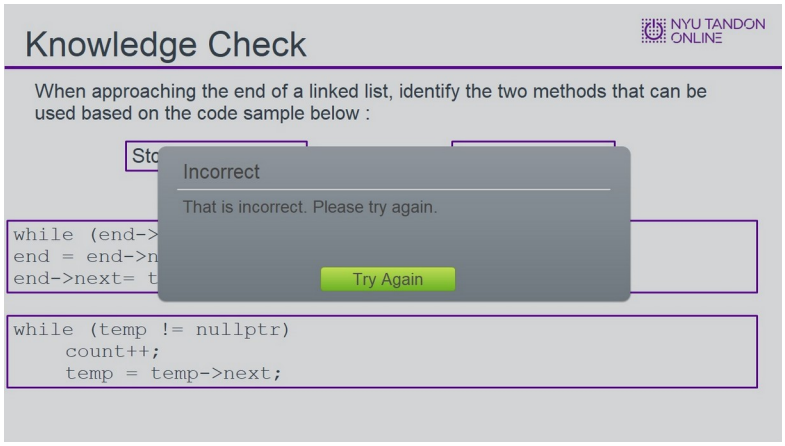
Correct (Slide Layer)



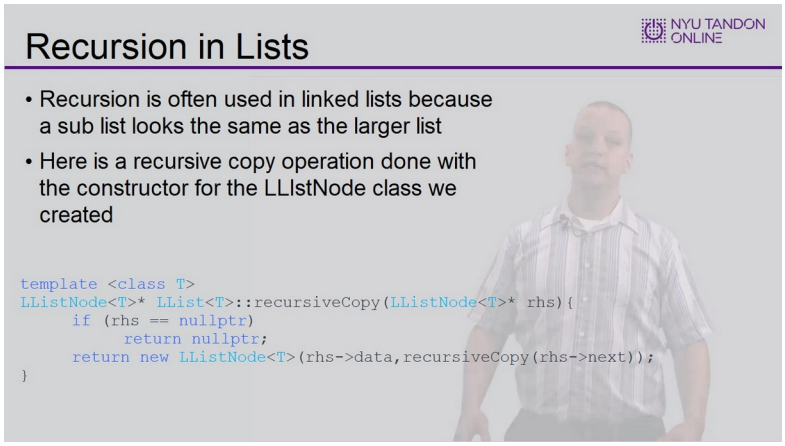
Incorrect (Slide Layer)



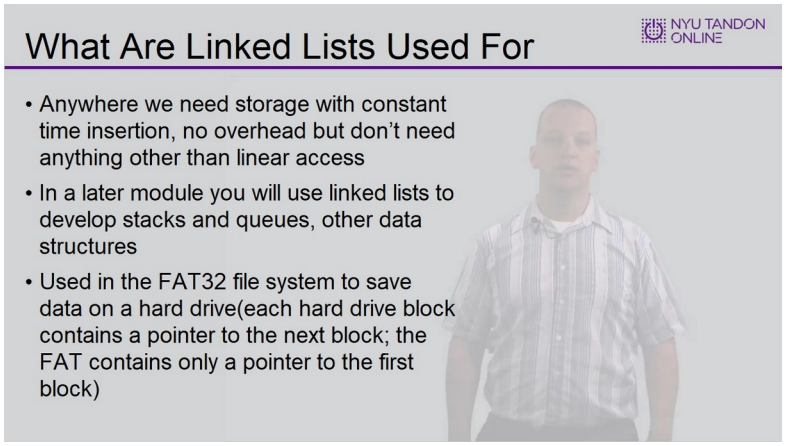
Try Again (Slide Layer)



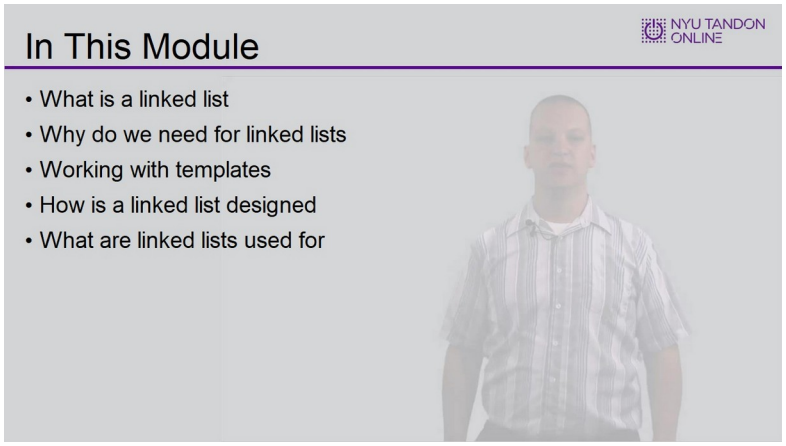
1.13 Recursion in lists



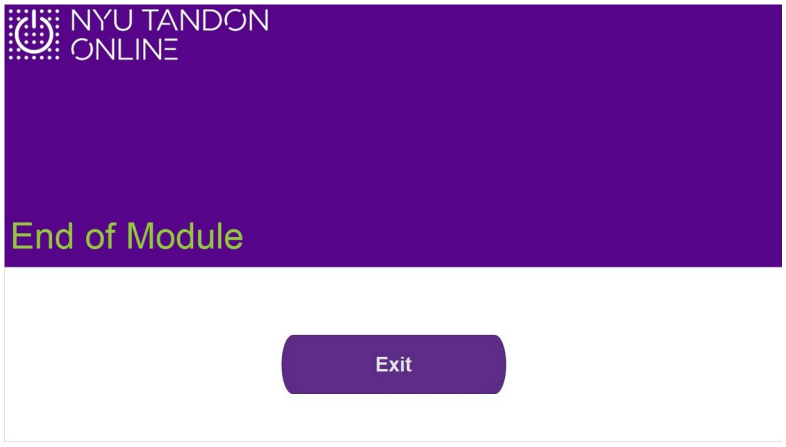
1.14 What are linked lists used for



1.15 In this module



1.16 End of Module



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