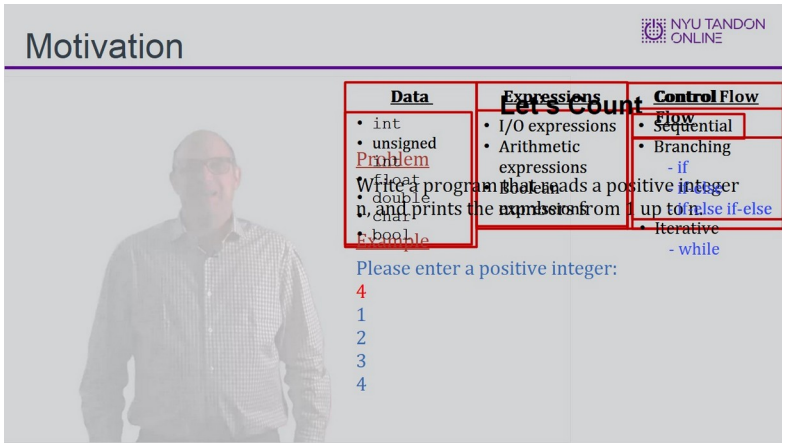
CS Bridge Module 6 Iterative Statements

1. Iterative Statements (Loops)

1.1 CS Bridge: Iterative Statements (Loops)

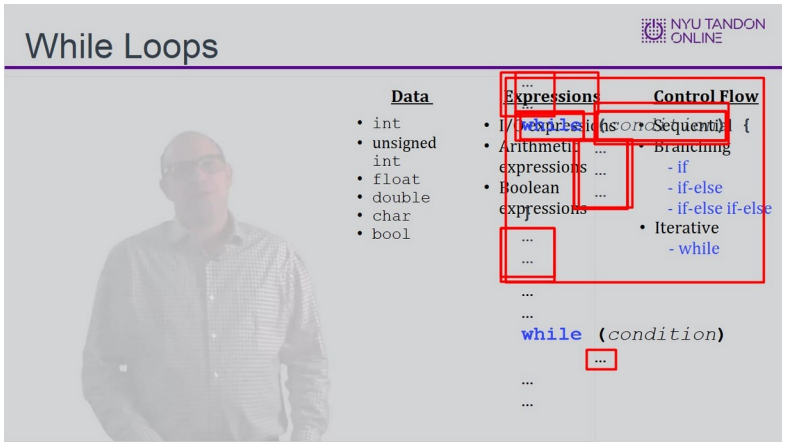
1.2 Motivation



Notes:

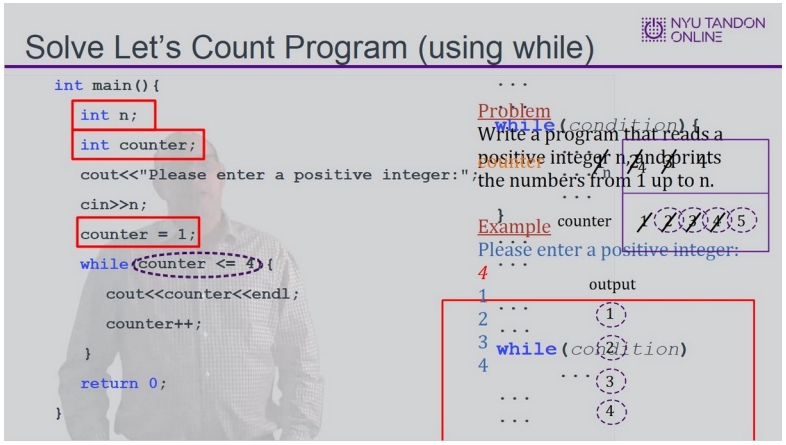
2. While Loops

2.1 While Loops



Notes:

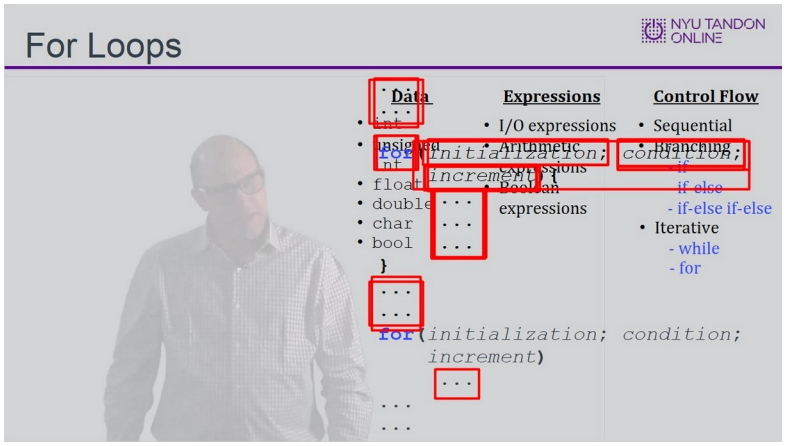
2.2 Solve Let's Count Program (using while)



Notes:

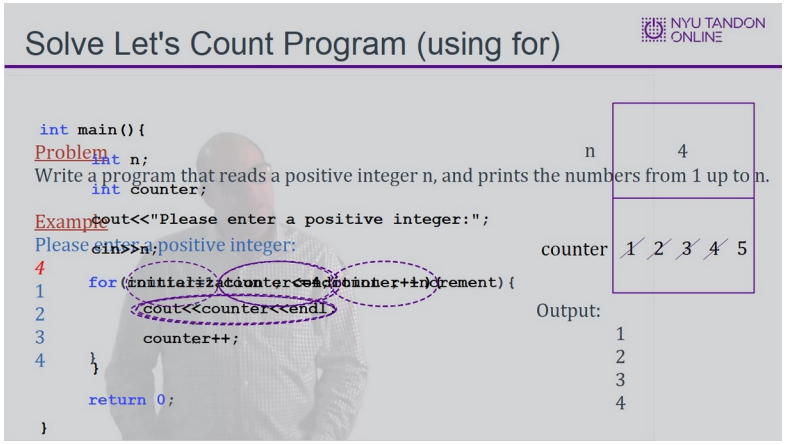
3. For Loops

3.1 For Loops



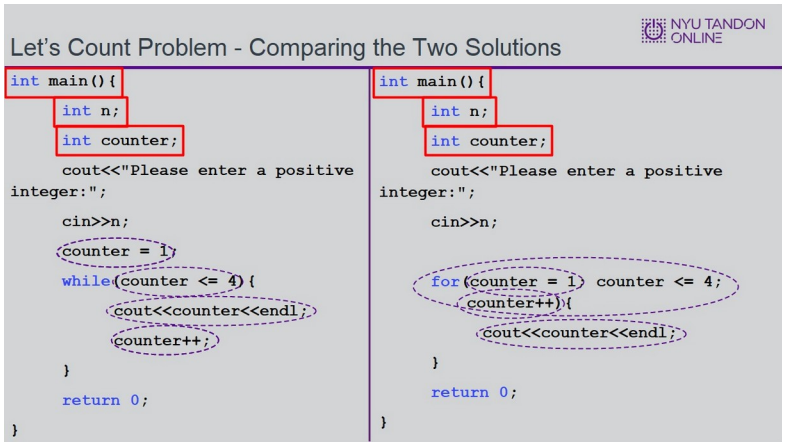
Notes:

3.2 Solve Let's Count Program (using for)



Notes:

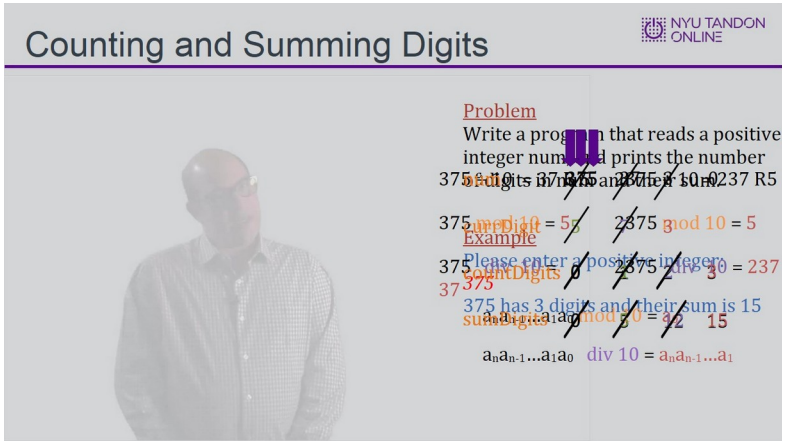
3.3 Let's count Problem – comparing the two solutions



Notes:

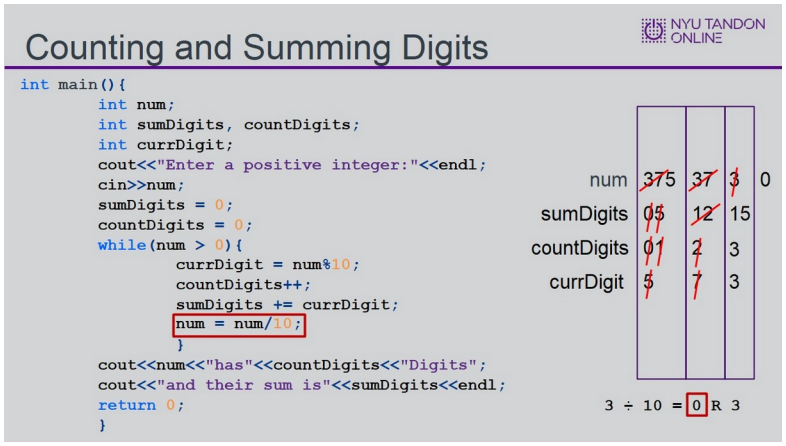
4. Counting and Summing Digits (example)

4.1 Counting and Summing Digits



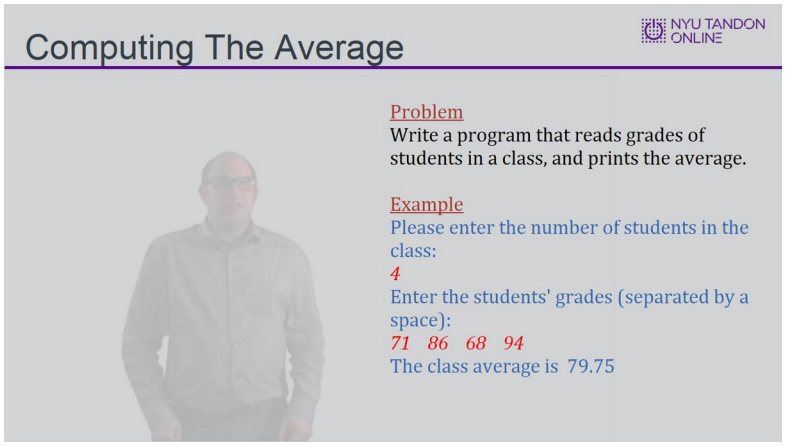
Notes:

4.2 Counting and Summing Digits continued



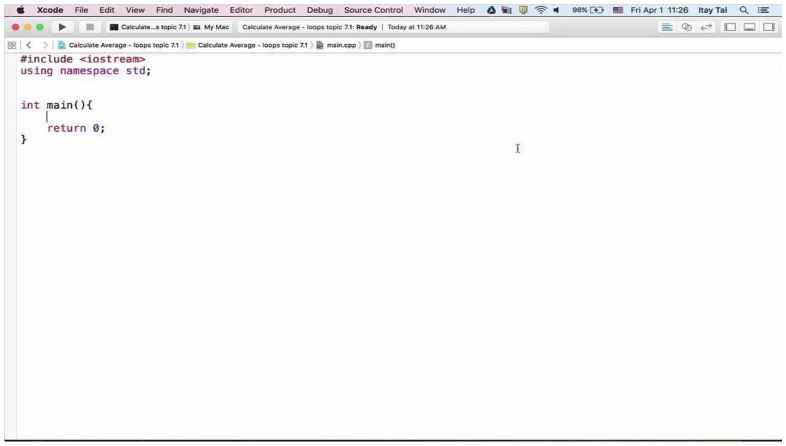
5. Computing the Average (example)

5.1 Computing The Average

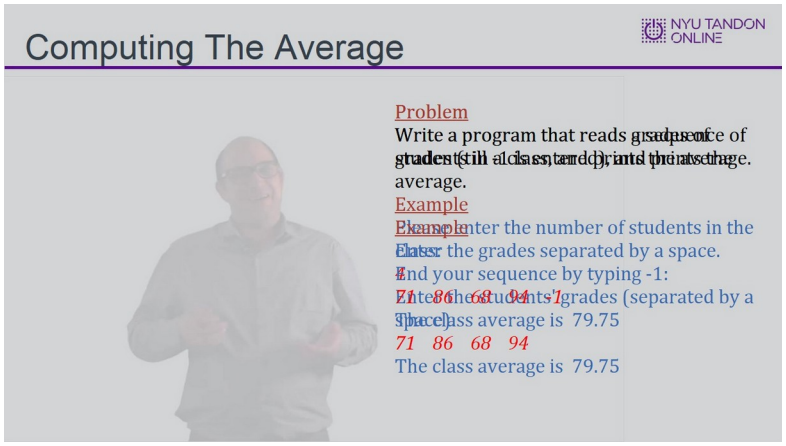


Notes:

5.2 Computing The Average

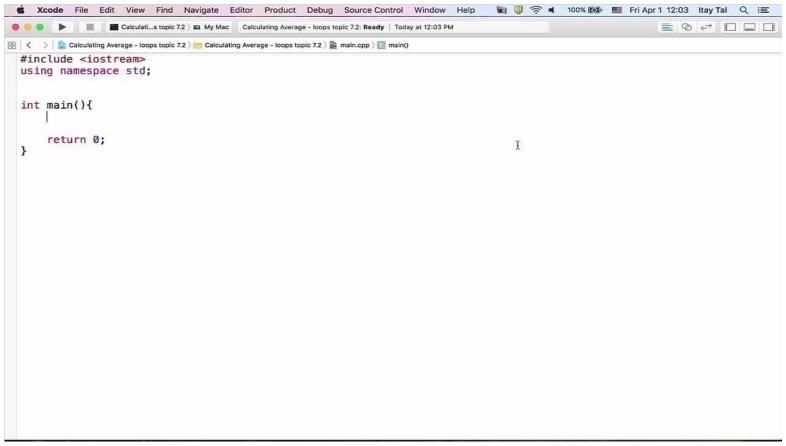


5.3 Computing The Average



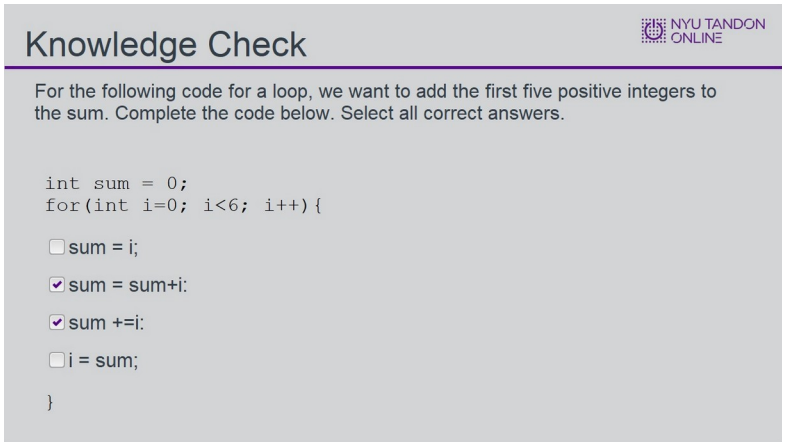
Notes:

5.4 Computing The Average



5.5 Knowledge Check

(Multiple Response, 10 points, unlimited attempts permitted)

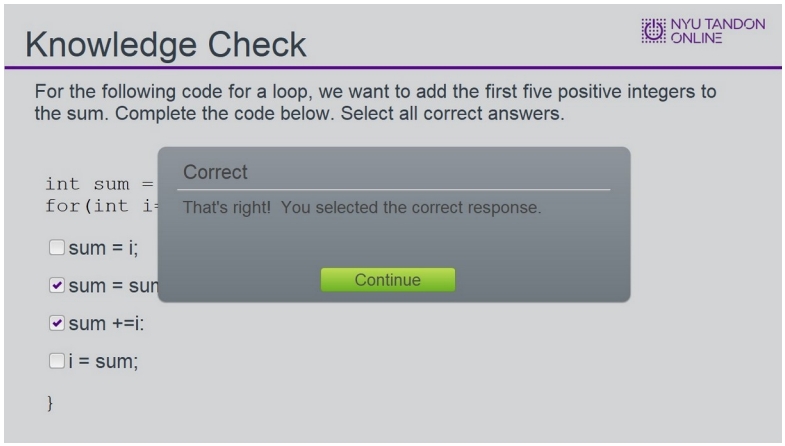


Correct	Choice
	sum = i;
X	sum = sum+i:
X	sum +=i:
	i = sum;

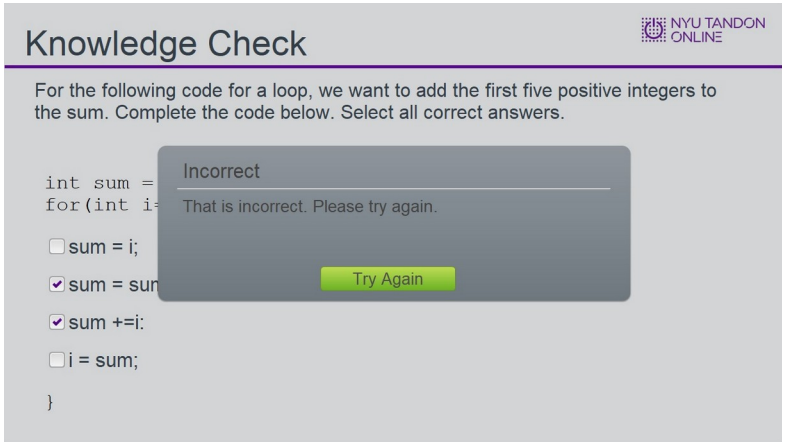
Feedback when correct:

That's right! You selected the correct response.

Correct (Slide Layer)

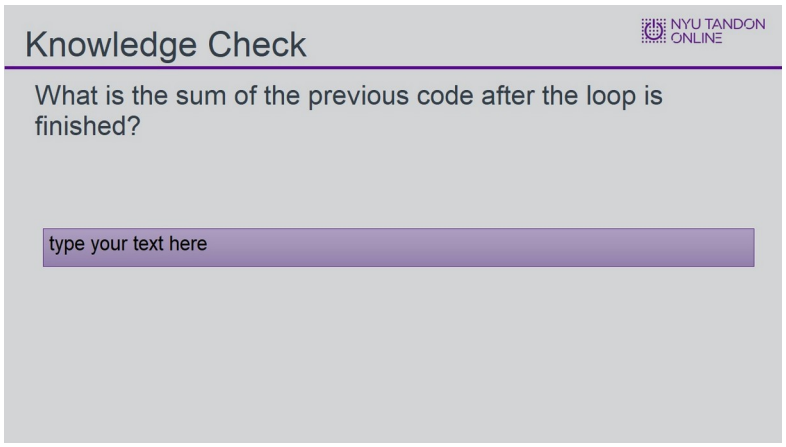


Try Again (Slide Layer)



5.6 Knowledge Check

(Fill-in-the-Blank, 10 points, unlimited attempts permitted)

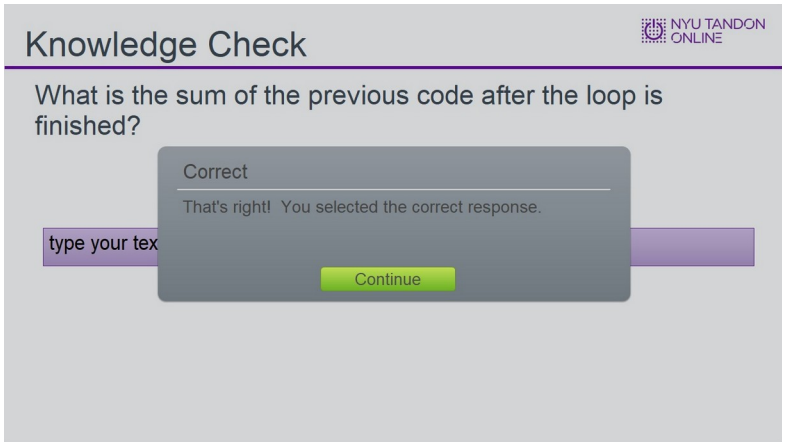


Choice
15

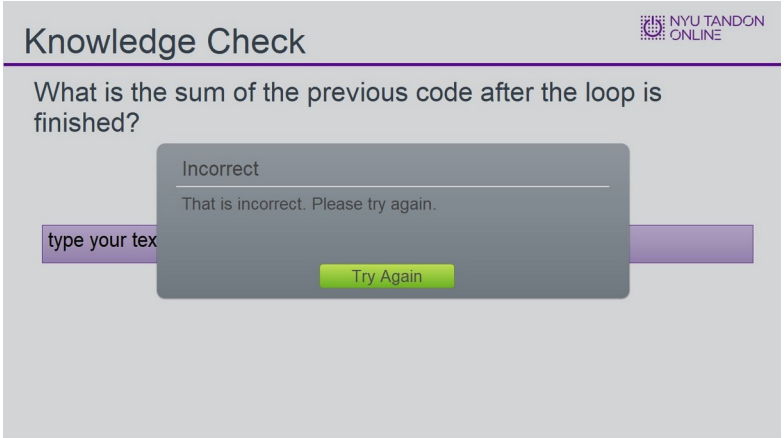
Feedback when correct:

That's right! You selected the correct response.

Correct (Slide Layer)

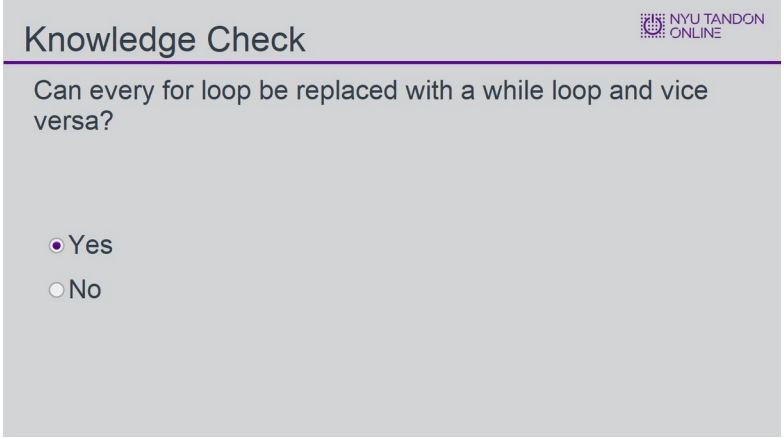


Try Again (Slide Layer)



5.7 Knowledge Check

(True/False, 10 points, unlimited attempts permitted)

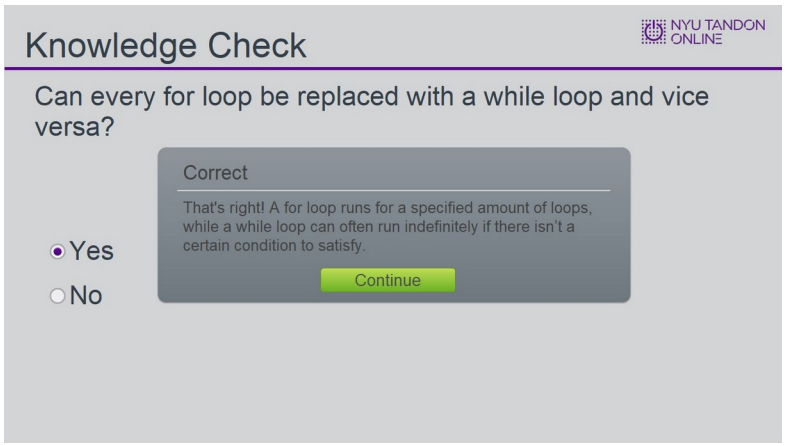


Correct	Choice
X	Yes
	No

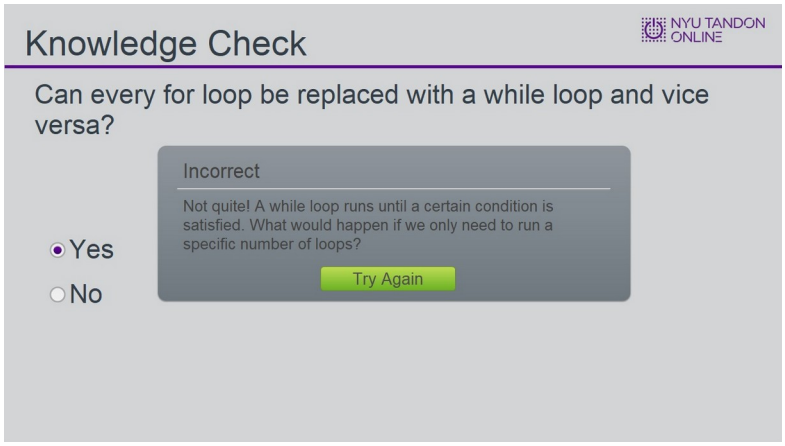
Feedback when correct:

That's right! A for loop runs for a specified amount of loops, while a while loop can often run indefinitely if there isn't a certain condition to satisfy.

Correct (Slide Layer)



Try Again (Slide Layer)



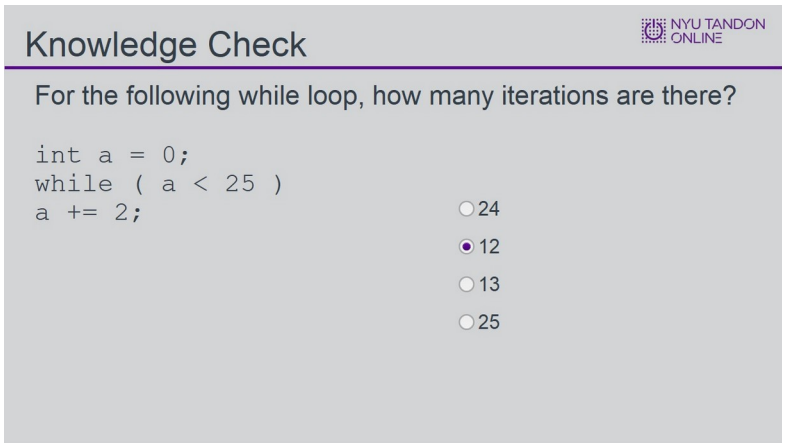
5.8 For the following while loop, how many iterations are there?

int a = 0;

while (a < 25)

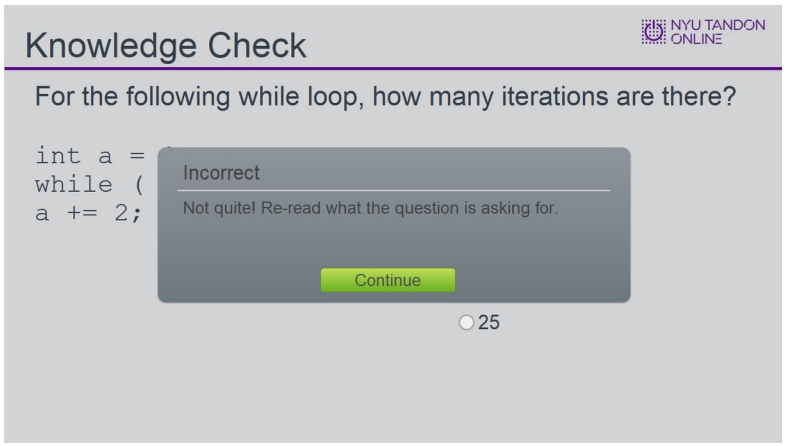
a += 2;

(Multiple Choice, 10 points, 1 attempt permitted)

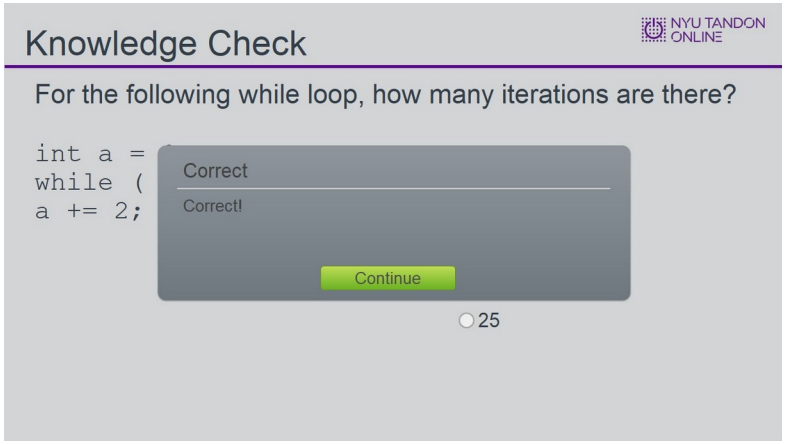


Correct	Choice	Feedback
	24	Not quite! Re-read what the question is asking for.
X	12	Correct!
	13	You're on the right track….
	25	Not quite!

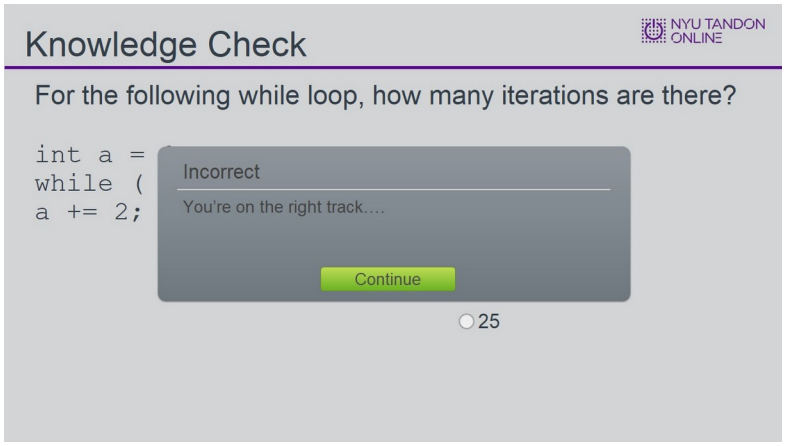
24 (Slide Layer)



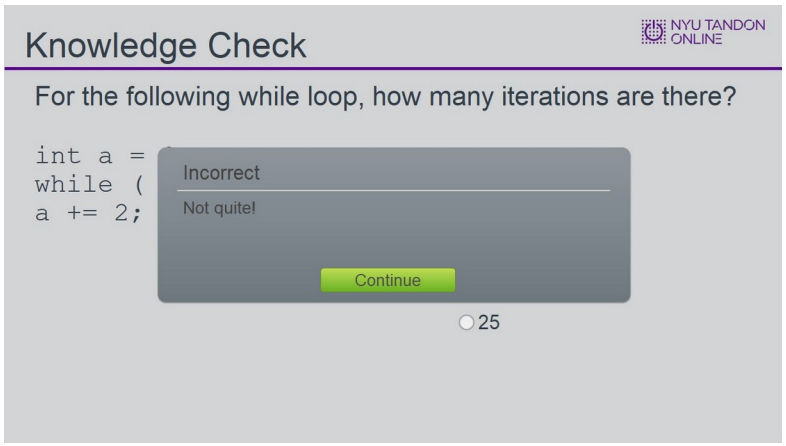
12 (Slide Layer)



13 (Slide Layer)

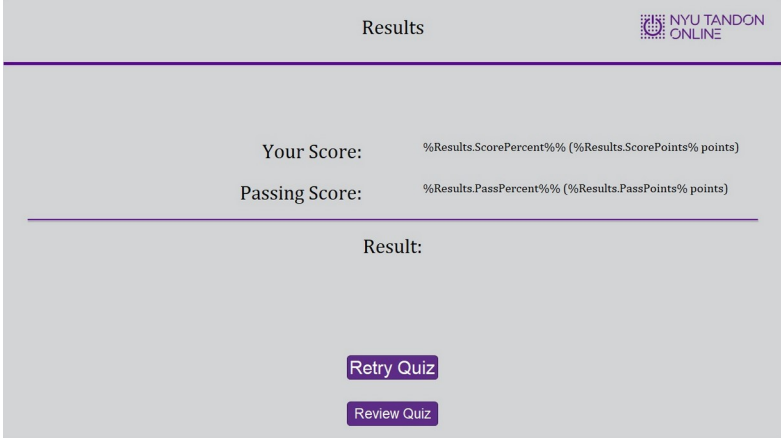


25 (Slide Layer)



5.9 Results Slide

(Results Slide, 0 points, 1 attempt permitted)



Results for
5.5 Knowledge Check
5.6 Knowledge Check
5.7 Knowledge Check

5.8 For the following while loop, how many iterations are there?
int a = 0;
while (a < 25)
a += 2;

Result slide properties

Passing 80%

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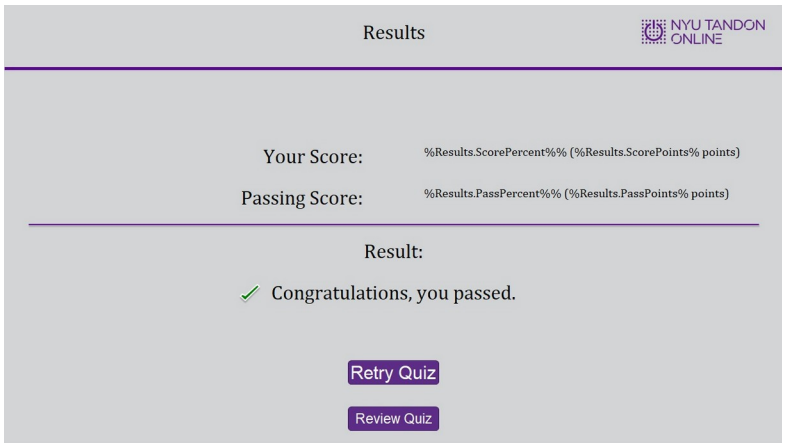
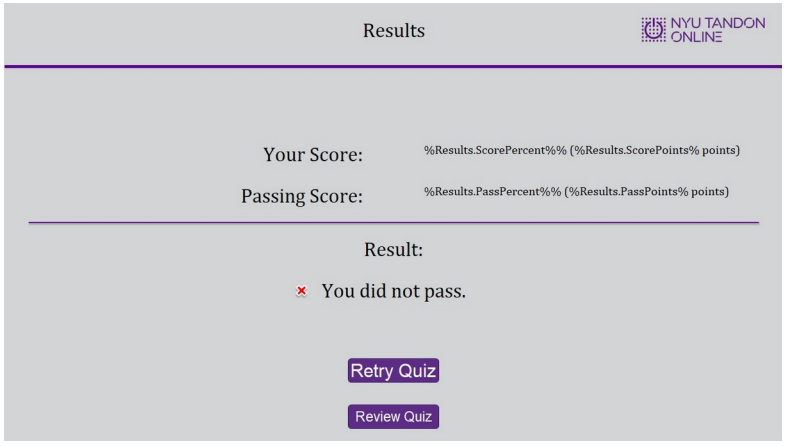
Score

Success (Slide Layer)



Failure (Slide Layer)



5.10 End of Module