

LEC 10

CSE 121

While Loops

Questions during Class?

Raise hand or send here

sli.do **#cse121**

BEFORE WE START

*Talk to your neighbors:**What's your favorite spot
on the ave?*Music: ♣ [CSE 121 25su Lecture Tunes](#) ♣**Instructor:** Hannah Swoffer

TAs:	Abby	Merav
	Hannah	Trey
	Julia	

Agenda

- **Mid-Quarter Lecture Feedback** ←
- Announcements, Reminders
- While loop review
- Code Examples!



Mid-Quarter Lecture Feedback

- Please take 10 mins to fill out this survey
- TAs and I will leave the room
- My goal: make lecture as beneficial as I can for you all
- Link to form: <https://forms.gle/iatNF5brTJ7mHSqg7>
 - Can also be found in the Ed post titled “25su Mid-Quarter Lecture Feedback Tomorrow During Class”



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Announcements, Reminders

- P2 released this morning; due Tuesday, August 5th
- R4 releases later today; due Tuesday, August 5th
 - Eligible: **C1**, P1, C2
 - Note: C1 is cycling out of eligibility for resubmission
- Quiz reminders:
 - Quiz 0 feedback released last Friday!
 - Quiz 1: **TOMORROW Thursday, July 31st**
 - Practice quizzes are very helpful study resources
 - Sick? Do not come to your quiz.
Instead, **email me, before the start of your quiz section.**



Agenda

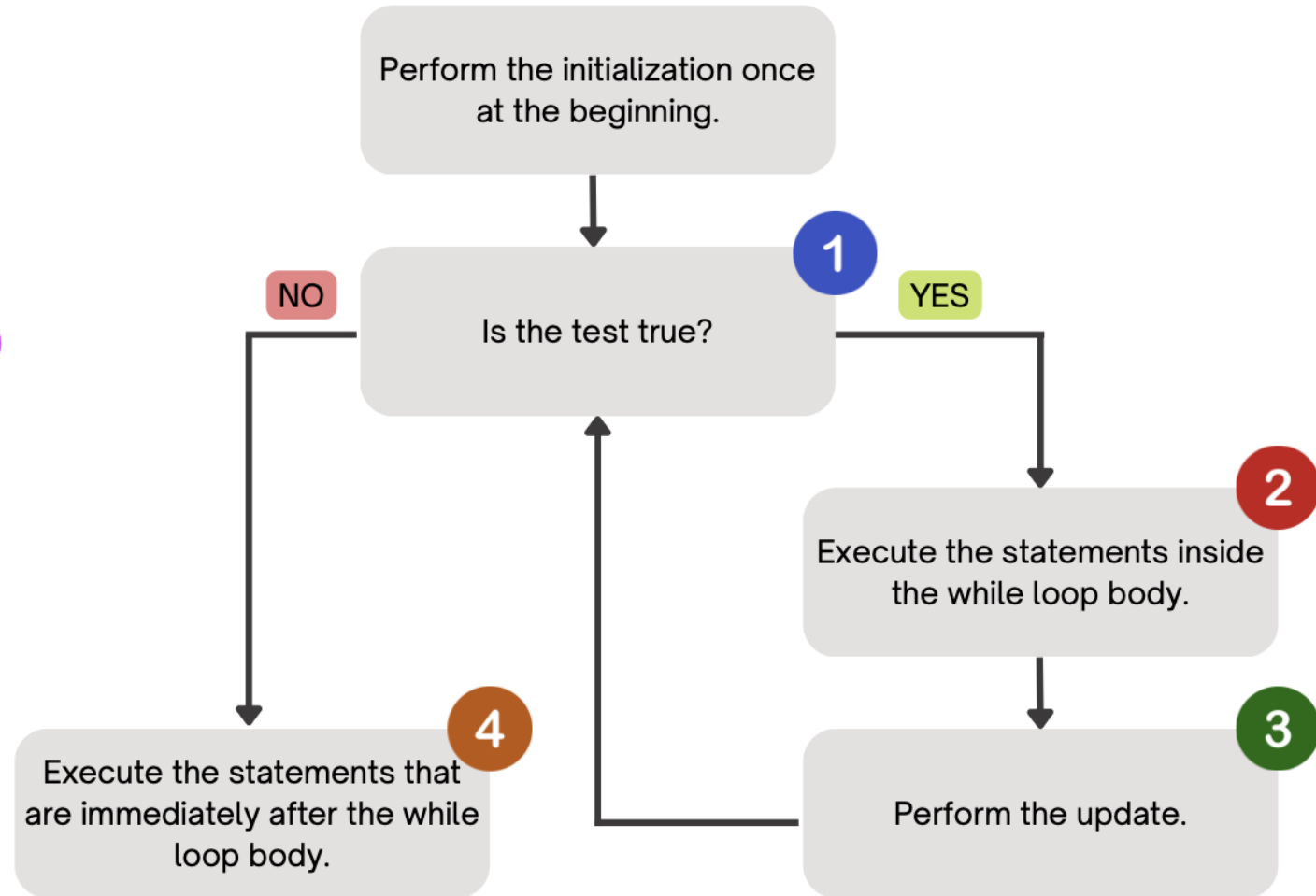
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PCM Review: while loops

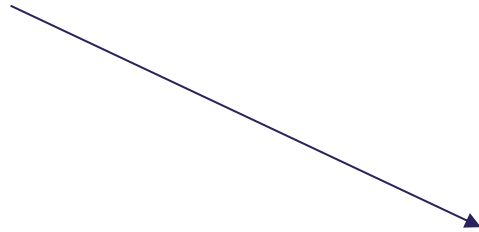
```
while (test) {  
    body (statements to be repeated)  
}
```

Repeatedly executes its body
as long as the logical test is
true.



for loops are while loops?

```
for (int i = 0; i < bigYikes; i++) {  
    // ...  
}
```

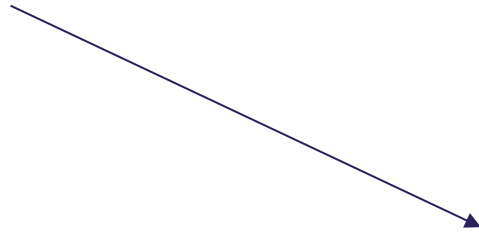


```
int i = 0;  
while (i < bigYikes) {  
    // ...  
  
    i++;  
}
```



for loops are while loops! (almost*)

```
for (int i = 0; i < bigYikes; i++) {  
    // ...  
}
```



```
int i = 0;  
while (i < bigYikes) {  
    // ...  
    i++;  
}
```

*as a technical note, these aren't exactly the same – there are some minor technical details that are different, most notably the scope of `i` is different in the two loops



for loops vs. while loops

For loops and while loops are quite similar! This is the first (but certainly not the last) time where you need to decide which to use!

There's not always a “correct” answer, but some advice:

- is the condition definite or indefinite
- Describing the problem!
 - “I will do __ X times” or “for each __ I will __” – sounds like for!
 - “I will do __ until” or “while __ is true, I will” – sounds like while!
- it's okay to change your mind after you try one approach!



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