

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 26au Lecture Tunes](#) **Instructor:** Miya Natsuhara and Anjali Pal

TAs:	Samrutha	Tamsyn	Owen	Jennie
	William	Cedric	Jameson	Anisha
	Samvedha	Anum	Paul	TJ
	Syreeta	Navya	Gurbax	Ivory
	Ryan	Gene	Tony	Sarah W
	Anant	Margot	Lucas	Avery
	Henry	Sarah K	Alex	
	Reese	Ethan	Jesse	
	Savannah	Evelyn	Matthew	

Agenda (1/3)

- **Announcements, Reminders** ←
- while loop review
- Rolling more dice!

Announcements, Reminders

- Computer Quiz 1 ongoing! Window ends **Wednesday, Nov 4**
 - Make sure to reserve your spot early!
 - Remember – the last opportunity to schedule or reschedule a CQ1 timeslot is 11:59pm *the night before the timeslot in question*
- Paper Quiz 1 on **Tuesday, Nov 3** in your registered quiz section

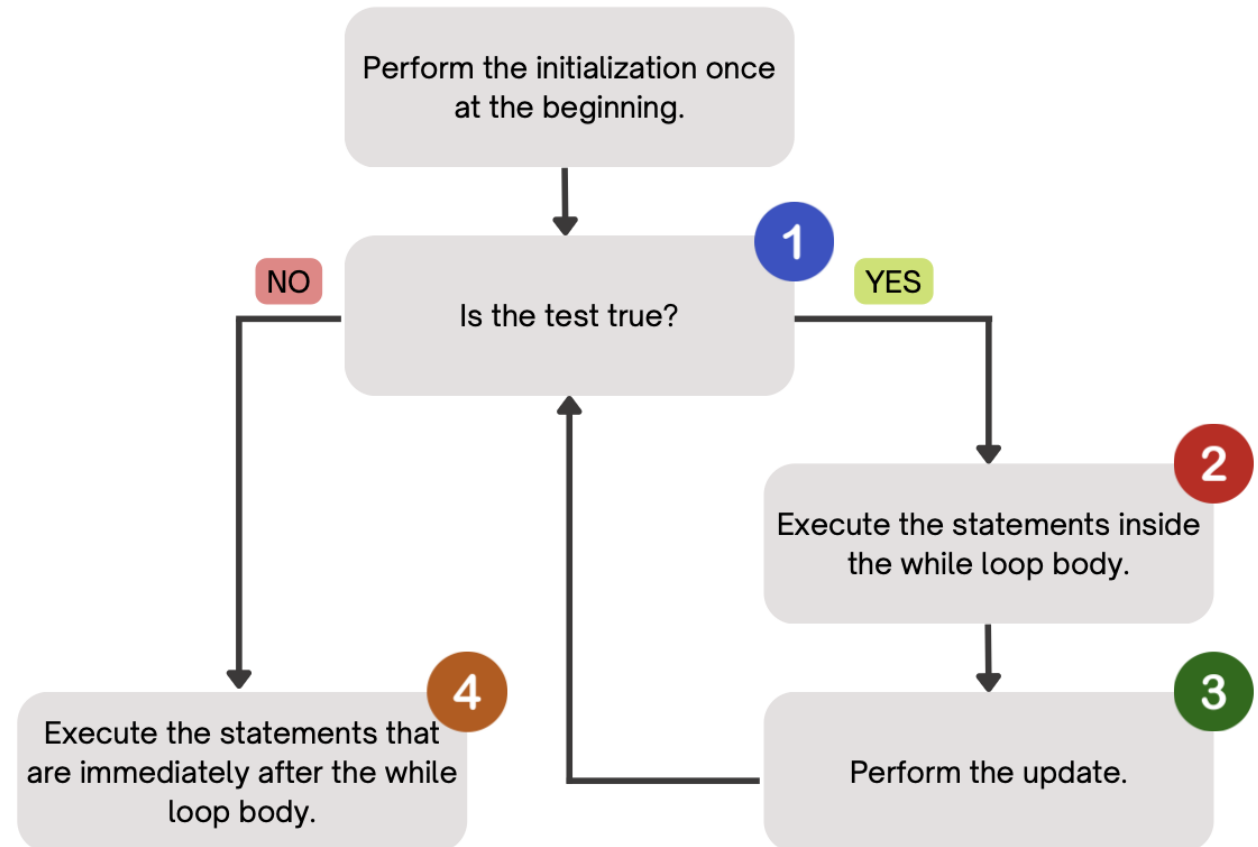
Agenda (2/3)

- Announcements, Reminders
- **while loop review** ←
- Rolling more dice!

PCM Review: while loops

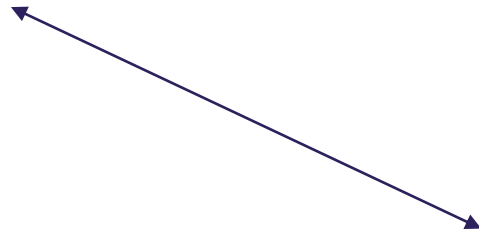
```
while (test) {  
    body (statements to be repeated)  
}
```

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



for loops are while loops?

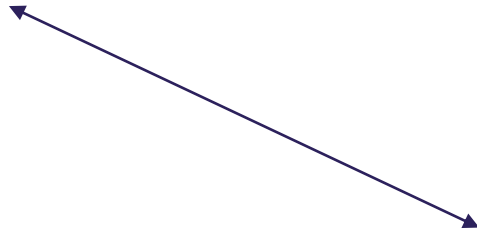
```
for (int i = 0; i < bigYikes; i++) {  
    // ...  
}
```



```
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!

Agenda (3/3)

- Announcements, Reminders
- while loop review
- **Rolling more dice!** 