# CSE 121 – Lesson 4

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Spring 2023



#### Music: <u>121 23sp Lecture Vibes</u>

<u>TAs:</u>	Jasmine Atharva	Mia	Justin
	Shananda Julia	Archit	Aishah
	Vidhi Anju	Grace	Claire
	Larry Lydia	Kailye	Lydia
	Jacqueline Jonus	Joshua	Kai
	Afifah Hugh	James	

#### sli.do #cse121



## Announcements, Reminders

- Creative Project 1 releasing later today
  - Due Tuesday, April 18
- Feedback for Creative Project 0 released tomorrow
- Quiz 0: Thursday, April 20 during section.
  - Bring device to take quiz on! (e.g., laptop, surface)
- Resubmission form for R0 releasing tomorrow
  - due Thursday April 20

## Resubmissions

In general, you may revise resubmit a given Programming Assignment or Creative Project each week based on the feedback you receive with **no penalty**. The grade of your resubmission will *completely replace* your previous grades for that assignment.

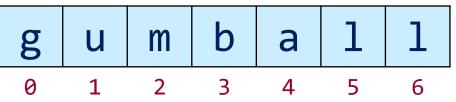
#### Logistics:

- One resubmission per week
- There are 8 resubmission cycles this quarter (all listed on the <u>course calendar</u>)
- To use a resubmission, you will need to fill out a form listing some information
  - Name, assignment, which submission, what you changed, etc.

## Last Time...

- Variables
  - Container that stores a specific data type
  - Must declare & initialize!
  - Manipulate, modify, reuse A
- Strings
  - Sequence of characters treated as one, yet can be indexed as individual parts
  - char, represents a single character

// declare AND initialize
int version = 5;





We also started to think about *debugging* with the last activity in class on Friday (BuggyMadLibs.java)

Bugs happen – debugging is a natural part of programming!

Ways to approach debugging?



# (PCM) for loops!

#### For loops are our first *control structure* A syntactic structure that *controls* the execution of other statements.

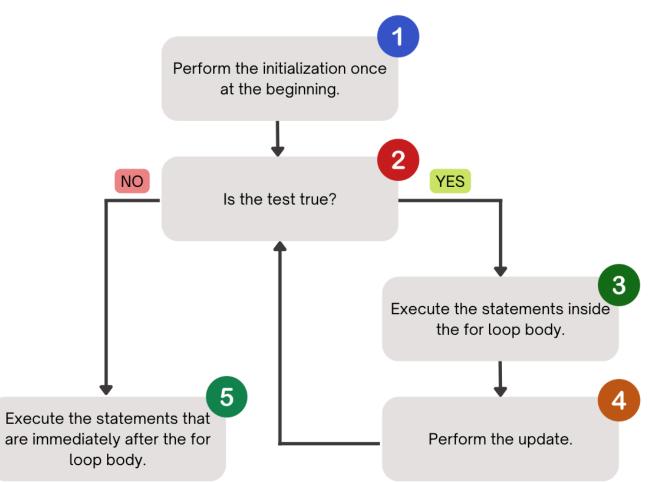


# (PCM) for loops!

# for (int counter = 1; counter <= 5; counter++) { System.out.println("I love CSE 121!");</pre>



# (PCM) for loops!

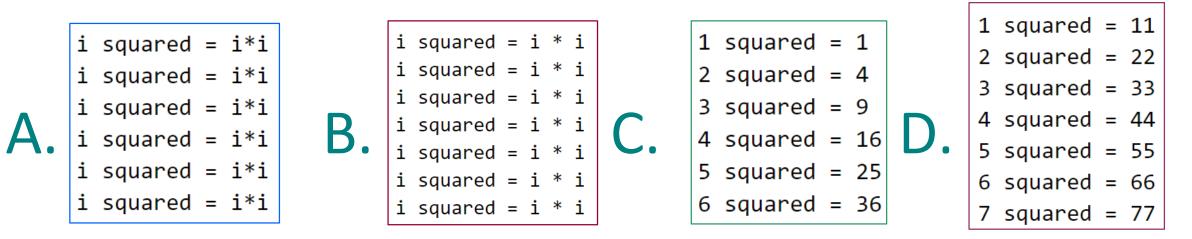




# Poll in with your answer!

What output does the following code produce?

```
for (int i = 1; i <= 6; i++) {
    System.out.println(i + " squared = " + i * i);
}</pre>
```





## (PCM) String traversals

// For some String s
for (int i = 0; i < s.length(); i++) {
 // do something with s.charAt(i)
}</pre>



### **Fencepost Pattern**

Some task where one piece is repeated *n* times, and another piece is repeated *n*-1 times and they alternate



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# 



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