CS 103000 Prof. Madeline Blount

Week 5:

LOOPS (part 2)

☐ FOR & NESTED LOOPS

Attendance:

https://proton-cs103.glitch.me/



Dall-E 2: cats learning C++ in the forest on '90's technology



PROJECT EULER

https://projecteuler.net/

800+ problems ...



Project Euler net



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Multiples of 3 or 5

Problem 1





If we list all the natural numbers below 10 that are multiples of 3 or 5, we get 3, 5, 6 and 9. The sum of these multiples is 23.

Find the sum of all the multiples of 3 or 5 below 1000.

Problem 1: answer 233168

```
for loops!
```

```
int i;
for (i = 0; i < max; i++) {
 // loop in here
```

for loops!

```
6  int i = 0;
7  while (i < 5) {
8    // code
9   i++;
10 }</pre>
```

```
6  int i;
7  for (i = 0; i < 5; i++) {
8    // code
9  }</pre>
```

while: when you want to loop "until" something

for: when you want to loop a certain number of times, or count the number of times





Nested for loops:
MULTI-DIMENSIONAL



