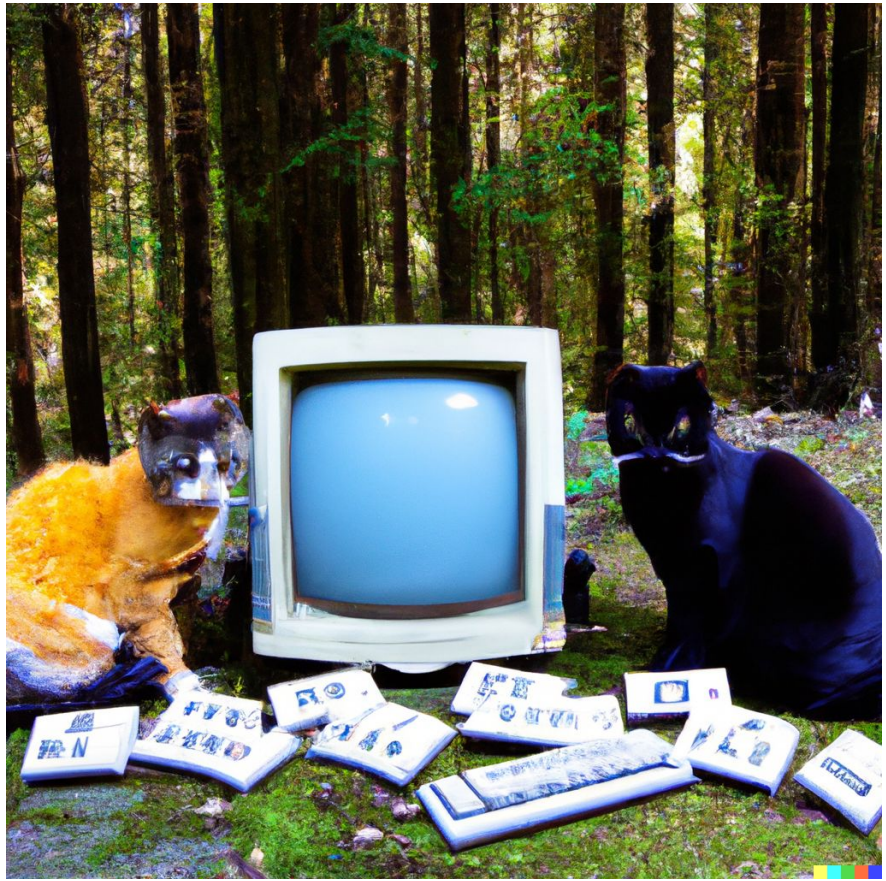
CS 103000
Prof. Madeline Blount

Week 6:
VECTORS

Attendance:
https://cs103-proton2.glitch.me/



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

https://cs103-proton2.glitch.me/

Special Pythagorean triplet

Problem 9

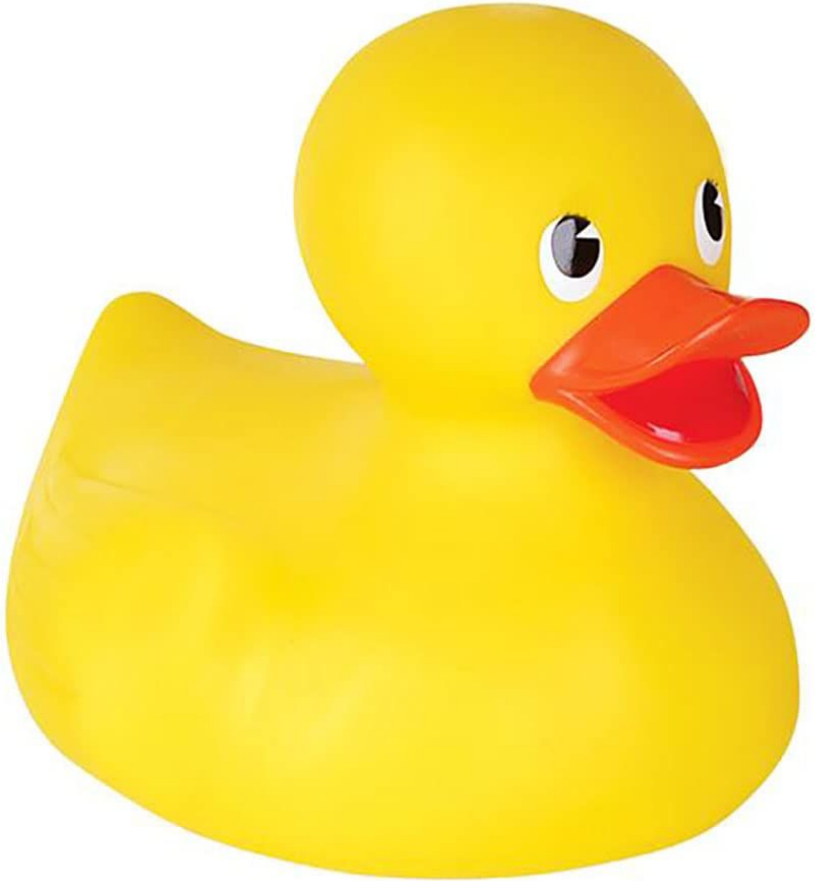
A Pythagorean triplet is a set of three natural numbers, $a < b < c$, for which,

$$a^2 + b^2 = c^2$$

For example, $3^2 + 4^2 = 9 + 16 = 25 = 5^2$.

There exists exactly one Pythagorean triplet for which $a + b + c = 1000$.
Find the product abc.

```
euler #9 answer: 31875000
```

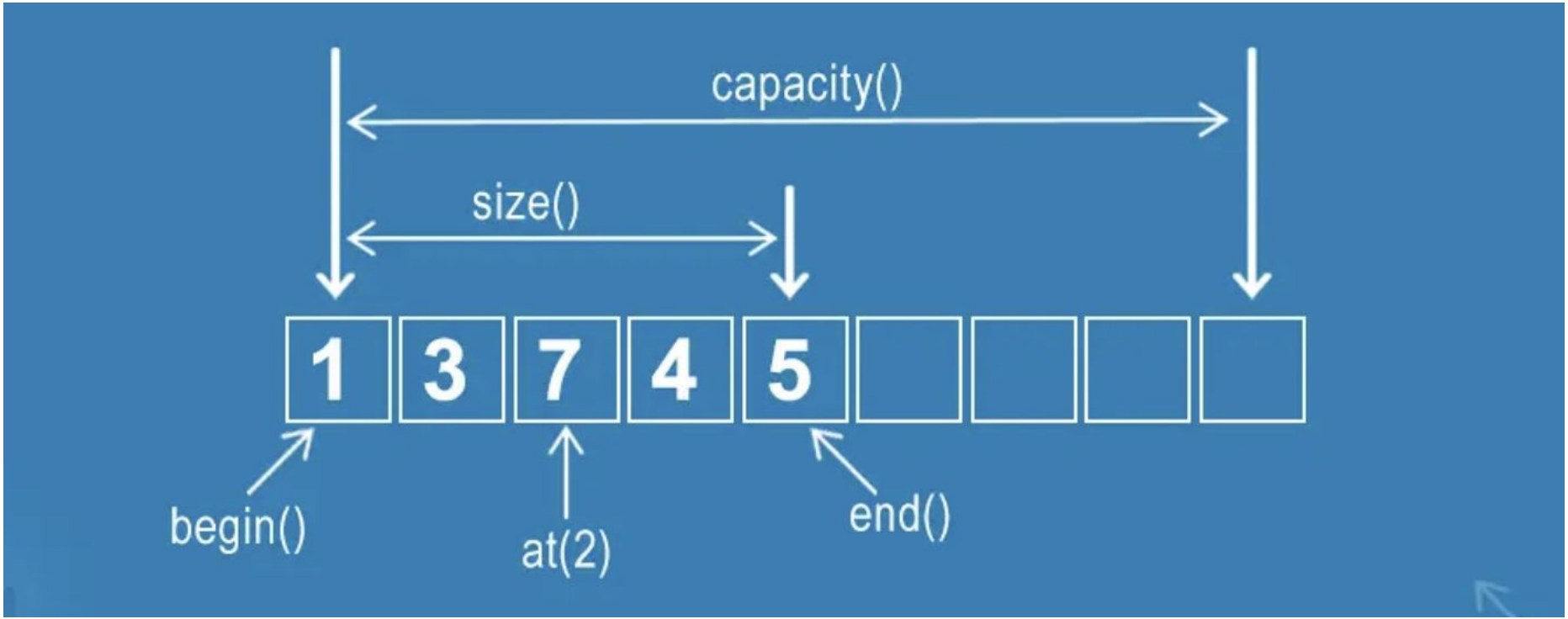


“brute force”

using loops + computation power

“brute force”

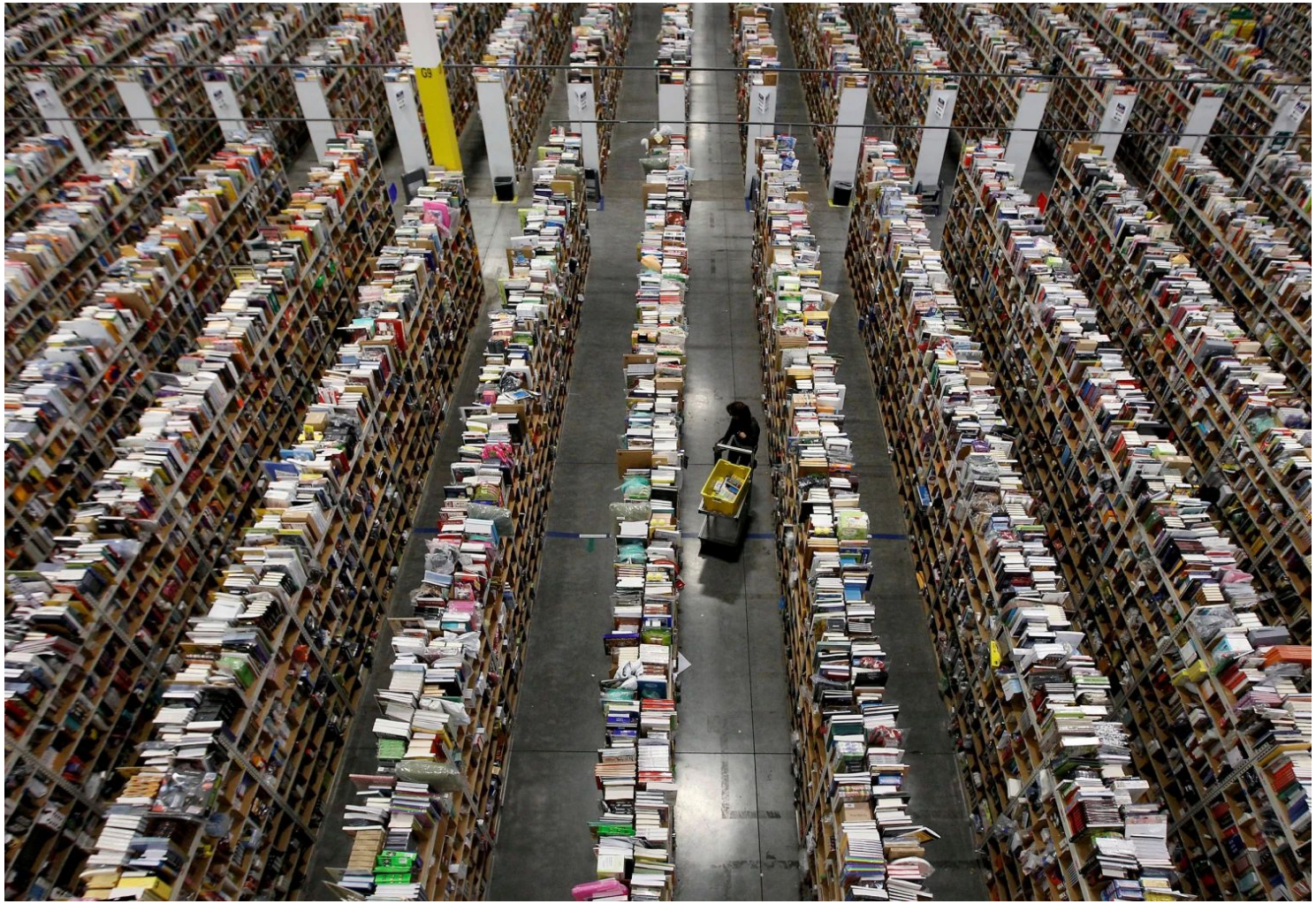
vectors!




train.at(4)
train.at(2)
train.at(0)


mail.at(0)
mail.at(1)
mail.at(2)
mail.at(3)
mail.at(4)
mail.at(5)
203
204
302
303
304


apt.at(0)
apt.at(2)



```cpp
std::vector<double> order = {3.99, 12.99, 2.49};

// What's the first element?
std::cout << order[0];

// What's the last element?
std::cout << order[2];
```