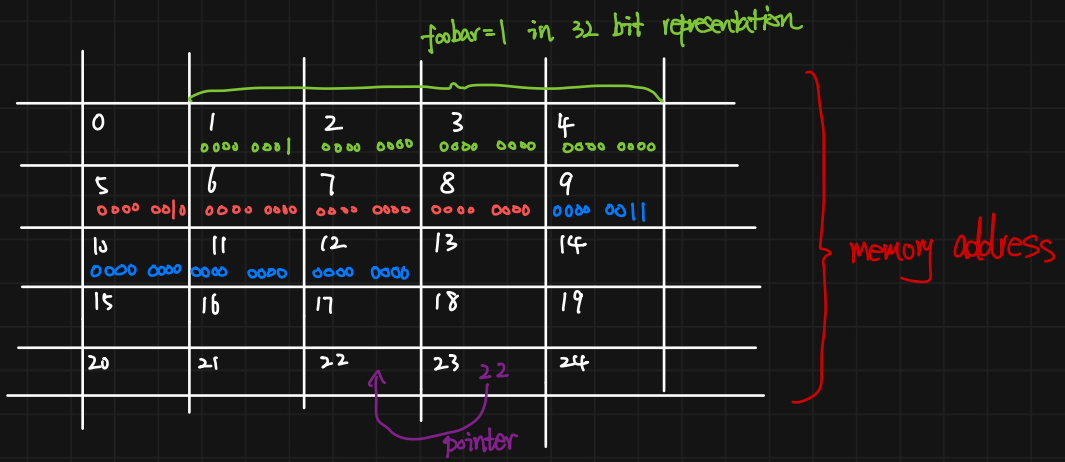
Memory

1. Variable Declaration

   foobar = 1

What is memory: Foundation layer of computing, where all data is stored.



2. Store data in a form of bits in memory (8 bits = 1 byte)

3. One memory slot can hold 8 bits (8 bits = 8 byte)

4. In Java and C++, an int is 32 bit (4 byte), So if we store an int to memory we need 4 memory slots (32/8 = 4)

5. Fix width integers (the # of memory slots are always fixed to represent different #)

6. Accessing the memory is extremely fast.

7. To store a 32 bit int to memory, it has to have back to back memory slots.