Issue #1
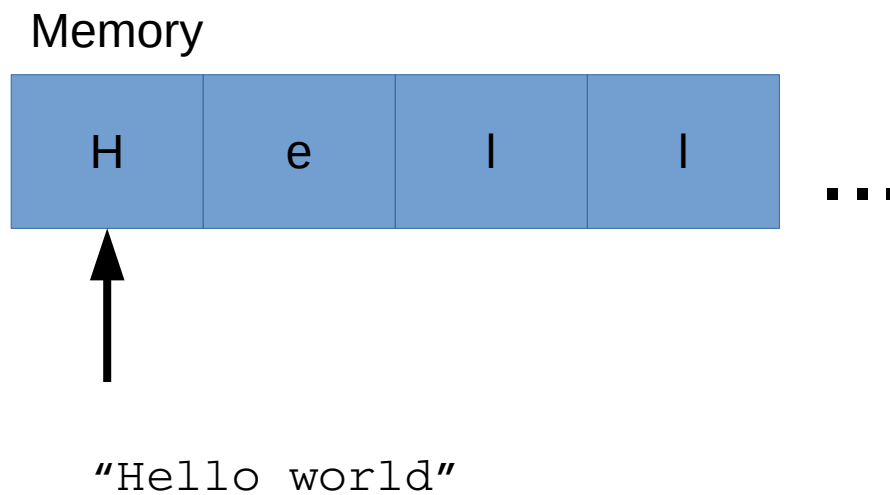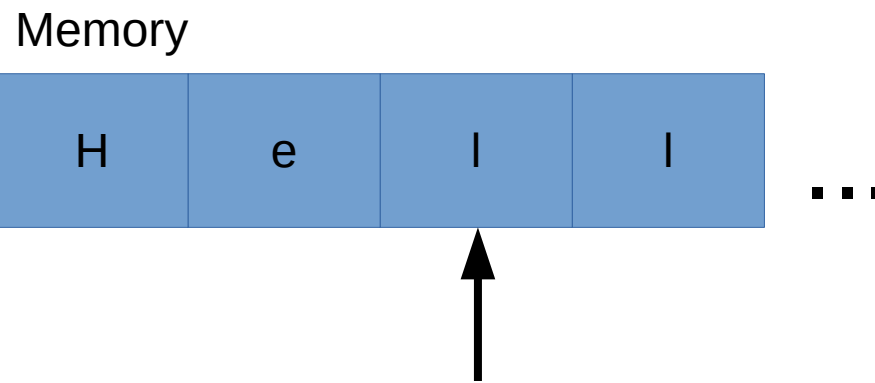
- What happens when adding `int` to "`hello world`"?
  - "`hello world`" is stored in memory as shown in the following page.

Memory

| H | e | l | l | ... |

"Hello world"

The program "remembers" where "Hello world" using a pointer which points to the first character of "Hello world" in memory.

Memory

| H | e | l | l | ... |

cout << 2 + "Hello world\n";

output

llo world

When we add 2 to the pointer, the pointer is shifted by 2 characters. Therefore, the output starts at the first 'l' in hello world and outputs the remaining portion of the string, but skips the first two characters.

Issue #2

- Multiple characters inside single quotes (e.g., 'a\n') is not an error.

- Reason
  - In C++, this is often called a "multi-character character" the value of an integer character constant containing more than one character (e.g., 'ab'), [...] is implementation-defined.
  - Implementation-defined means that it is up to the platform (compiler and OS) as to the actual behavior of the program. Put another way, the code is still valid, but the output will depend on the program's environment.
  - In general, it is advisable to avoid implementation-defined behavior when writing your code. The reason being as seen in class is that the output will not be portable and may be unexpected/unintended.