COS30031 Ben Holmes 103024841 Lab9 Report: 18/10/2024

## Question 1

There are 8:

|  |  |
| --- | --- |
| Mode: | Description |
| in | Opens the file to read(default for ifstream) |
| out | Opens the file to write(default for ofstream) |
| binary | Opens the file in binary mode |
| app | Opens the file and appends all the outputs at the end |
| ate | Opens the file and moves the control to the end of the file |
| trunc | Removes the data in the existing file |
| nocreate | Opens the file only if it already exists |
| noreplace | Opens the file only if it does not already exist |

## Question 2

If it is a small or quick program that has no long runtime, there is no issue as the desctructor (close) will be called when the program terminates.

If the program is long however, as the resources for the files are kept open it could cause a crash because of too many system resources being used.

## Question 3

There are 9 bytes in my file, which is expected. Ints are 4 bytes and char are 1.