**Exercise 4**

*What are ‘escape sequences’?*

Escape sequences start with a \. They can be used to conduct special actions, such as starting a newline. The escape sequence is a character that is translated into another character, hence the escape sequence doesn’t represent itself.

*What standard ‘escape sequences’ are defined in C++? What are their meanings?*

Sequence: Meaning

\a alert

\b backspace

\f form feed

\n newline

\r carriage return

\t horizontal tab

\v vertical tab

\\ backslash

? or \? question mark

\’ single quote

\” double quote

\0 the null character

\ooo octal

\xhhh hexadecimal

\uxxxx Unicode (UTF-8)

\Uxxxxxxxx Unicode (UTF-16)

\nnn arbitrary octal value

\e escape character

*What happens if another character is written as an escape sequence?*

Other characters that follow after a \ will literally be represented without the \. This is why the single quote in the table above is represented by \’, and the backslash as \\.