Clark Chambers
Homework 2
CS121
Outputs

Program 1:

```
'cs121proj.exe' (Win32): Loaded 'C:\Users\Clark\CMakeBuilds\cc5bdfaa-ca5f-373f-8cc3-4e39554fe9bf\build\x86-Debug\cs121proj.exe'. Symbols loaded.
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\ntdll.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\kernel32.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Unloaded 'C:\Windows\SysWOW64\kernel32.dll'
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\kernel32.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\KernelBase.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\apphelp.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\vcruntime140d.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\ucrtbased.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\msvcp140d.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Unloaded 'C:\Windows\SysWOW64\ucrtbased.dll'
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\ucrtbased.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Unloaded 'C:\Windows\SysWOW64\ucrtbased.dll'
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\ucrtbased.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\kernel.appcore.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\msvcrt.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\rpcrt4.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\sspicli.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\cryptbase.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\bcryptprimitives.dll'. Cannot find or open the PDB file.
'cs121proj.exe' (Win32): Loaded 'C:\Windows\SysWOW64\sechost.dll'. Cannot find or open the PDB file.
The thread 0x308c has exited with code 0 (0x0).
The thread 0x570 has exited with code 0 (0x0).
The thread 0xd58 has exited with code 0 (0x0).
The program '[2000] cs121proj.exe' has exited with code 0 (0x0).
```

Program 2:

```
'cs121projhw2p2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\msvcp140d.dll'. Cannot find or open the PDB file.
'cs121projhw2p2.exe' (Win32): Unloaded 'C:\Windows\SysWOW64\msvcp140d.dll'
'cs121projhw2p2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\msvcp140d.dll'. Cannot find or open the PDB file.
'cs121projhw2p2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\kernel.appcore.dll'. Cannot find or open the PDB file.
'cs121projhw2p2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\msvcrt.dll'. Cannot find or open the PDB file.
'cs121projhw2p2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\rpcrt4.dll'. Cannot find or open the PDB file.
'cs121projhw2p2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\sspicli.dll'. Cannot find or open the PDB file.
'cs121projhw2p2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\cryptbase.dll'. Cannot find or open the PDB file.
'cs121projhw2p2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\bcryptprimitives.dll'. Cannot find or open the PDB file.
'cs121projhw2p2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\sechost.dll'. Cannot find or open the PDB file.
The thread 0x28a8 has exited with code 0 (0x0).
The thread 0x261c has exited with code 0 (0x0).
The thread 0x196c has exited with code 0 (0x0).
The program '[7920] cs121projhw2p2.exe' has exited with code 0 (0x0).
```

```
Welcome to the cool-dude book-storing neato program!

Enter Book Title: The Outsiders
Enter Author: S.E. Hinton
Enter price: 7.53

Yo. You want another book? (Y/N): Y
Enter Book Title: Fahrenheit 451
Enter Author: Ray Bradbury
Enter price: 8.99

Yo. You want another book? (Y/N): Y
Enter Book Title: Of Mice and Men
Enter Author: John Steinbeck
Enter price: 6.96

Yo. You want another book? (Y/N): Y
Enter Book Title: Lord of the Flies
Enter Author: William Golding
Enter price: 6.78

Yo. You want another book? (Y/N): Y
Enter Book Title: The Catcher in the Rye
Enter Author: J.D. Salinger
Enter price: 6.74

Yo. You want another book? (Y/N): Y
Enter Book Title: The Odyssey
Enter Author: Robert Fagles
Enter price: 10.17

Yo. You want another book? (Y/N): Y
Enter Book Title: Animal Farm
Enter Author: George Orwell
Enter price: 6.83

Yo. You want another book? (Y/N): Y
Enter Book Title: The Great Gatsby
Enter Author: F. Scott Fitzgerald
Enter price: 6.99

Yo. You want another book? (Y/N): Y
Enter Book Title: To Kill a Mockingbird
Enter Author: Harper Lee
Enter price: 5.89

Yo. You want another book? (Y/N): Y
Enter Book Title: Brave New World
Enter Author: Aldous Huxley
Enter price: 12.04

Yo. You want another book? (Y/N): N
```

Program 3

```
'cs121projhw2p3.exe' (Win32): Loaded 'C:\Users\Clark\CMakeBuilds\2cc90deb-6d7f-813f-95f5-0799b24a79a0\build\x8
'cs121projhw2p3.exe' (Win32): Loaded 'C:\Windows\SysWOW64\ntdll.dll'. Cannot find or open the PDB file.
'cs121projhw2p3.exe' (Win32): Loaded 'C:\Windows\SysWOW64\kernel32.dll'. Cannot find or open the PDB file.
'cs121projhw2p3.exe' (Win32): Unloaded 'C:\Windows\SysWOW64\kernel32.dll'
'cs121projhw2p3.exe' (Win32): Loaded 'C:\Windows\SysWOW64\kernel32.dll'. Cannot find or open the PDB file.
'cs121projhw2p3.exe' (Win32): Loaded 'C:\Windows\SysWOW64\KernelBase.dll'. Cannot find or open the PDB file.
'cs121projhw2p3.exe' (Win32): Loaded 'C:\Windows\SysWOW64\vcruntime140d.dll'. Cannot find or open the PDB file
'cs121projhw2p3.exe' (Win32): Loaded 'C:\Windows\SysWOW64\ucrtbased.dll'. Cannot find or open the PDB file.
'cs121projhw2p3.exe' (Win32): Loaded 'C:\Windows\SysWOW64\msvcp140d.dll'. Cannot find or open the PDB file.
The thread 0x21d4 has exited with code 0 (0x0).
The thread 0x16bc has exited with code 0 (0x0).
The thread 0x24ac has exited with code 0 (0x0).
The thread 0x34e0 has exited with code 0 (0x0).
The program '[7684] cs121projhw2p3.exe' has exited with code 0 (0x0).
```

```
Yo. Enter a sentence. We're gonna get weird: Wow! Check out this neat sentence!
It's pretty cool if you ask me.

Here's how many characters there are in that: 66
Here's how many words there are in that: 13
Here's uppercase: WOW! CHECK OUT THIS NEAT SENTENCE! IT'S PRETTY COOL IF YOU ASK
 ME.

Give me a position: 4
Give me a length: 30
Here's your substring:  Check out this neat sentence!

Give me a character: e

Wow! Check out this neat sentence! It's pretty cool if you ask me.
~~~~~~~~~~^~~~~~~~~~~~~~~~~~~~^~~~~~^~~~^~~~^~~~~~~~~~~~^~~~~~~~~~~~~~~~~~~~~~~~^~
Positions the character was at: 7 21 26 29 32 42 64
Press any key to continue . . .
```

Program 4

```
'cs121projhw2p4.exe' (Win32): Loaded 'C:\Users\Clark\CMakeBuilds\4491a546-164a-963b-82e2-285b377ffc38\build\x86-Debug\cs12
'cs121projhw2p4.exe' (Win32): Loaded 'C:\Windows\SysWOW64\ntdll.dll'. Cannot find or open the PDB file.
'cs121projhw2p4.exe' (Win32): Loaded 'C:\Windows\SysWOW64\kernel32.dll'. Cannot find or open the PDB file.
'cs121projhw2p4.exe' (Win32): Unloaded 'C:\Windows\SysWOW64\kernel32.dll'
'cs121projhw2p4.exe' (Win32): Loaded 'C:\Windows\SysWOW64\kernel32.dll'. Cannot find or open the PDB file.
'cs121projhw2p4.exe' (Win32): Loaded 'C:\Windows\SysWOW64\KernelBase.dll'. Cannot find or open the PDB file.
'cs121projhw2p4.exe' (Win32): Loaded 'C:\Windows\SysWOW64\vcruntime140d.dll'. Cannot find or open the PDB file.
'cs121projhw2p4.exe' (Win32): Loaded 'C:\Windows\SysWOW64\ucrtbased.dll'. Cannot find or open the PDB file.
'cs121projhw2p4.exe' (Win32): Loaded 'C:\Windows\SysWOW64\msvcp140d.dll'. Cannot find or open the PDB file.
'cs121projhw2p4.exe' (Win32): Unloaded 'C:\Windows\SysWOW64\msvcp140d.dll'
'cs121projhw2p4.exe' (Win32): Loaded 'C:\Windows\SysWOW64\msvcp140d.dll'. Cannot find or open the PDB file.
The thread 0x37e8 has exited with code 0 (0x0).
The thread 0x2fc8 has exited with code 0 (0x0).
The thread 0xc78 has exited with code 0 (0x0).
The program '[2748] cs121projhw2p4.exe' has exited with code 0 (0x0).
```

```
Number of words: 562
Press any key to continue . . .
```