```
printf("\n");
                  .0+
                                       tyler@tjw-laptop
                                       OS: Arch Linux
                 `000/
                `+0000:
                                       Kernel: x86 64 Linux 4.20.3-arch1-1-ARCH
                                                                                                                while (1);
                +000000:
                                       Uptime: 17h 22m
               -+000000+:
                                       Packages: 572
             `/:-:++0000+:
                                       Shell: bash 5.0.0
                                                                                                            void uint16 2 binary str(uint16 t num, char *cPtr){
            `/++++/++++++:
                                                                                                              for(int i = 0; i < 30; i++)
                                       Resolution: 1920x1080
                                       WM: OpenBox
          `/+++00000000000000/`
                                       WM Theme: tjw-dark-theme
                                                                                                                     *(cPtr + i) = 0;
                                       GTK Theme: tjw-dark-theme [GTK2/3]
                                       Icon Theme: Arc
                                                                                                              for(int i = 0; i < 16; i++){
                                       Font: Cantarell 11
                                                                                                                    uint16 t number = num;
                                       CPU: Intel Core i7-8550U @ 8x 4GHz [58.0°C]
                                       GPU: intel
                                                                                                                    int mask = 1 << 15 - i:
                       -:/+osssso+- RAM: 2087MiB / 11750MiB
                                                                                                                    int masked_n = number & mask;
                                                                                                                     *(cPtr + i) = masked n == 0 ? '0' : '1':
[tyler@tjw-laptop ~]$ cd ./Documents/CEC\ 320/Workshop\ 1/
                                                                                                              *(cPtr + 16) = '\0';
[tyler@tjw-laptop Workshop 1]$ qcc cec320_sec_1_ws1_wise_tyler_alkhawar_ahmed.c -o cec320_sec_1_ws1_wise_t }
vler alkhawar ahmed.o
[tyler@tjw-laptop Workshop 1]$ ./cec320_sec_1_ws1_wise_tyler_alkhawar_ahmed.o
Group Members: Tyler Wise & Ahmed Alkhawar
                                                                                                             void print_str_c(uint16_t num, char *cPtr) {
Testing the printout of binary numbers:
                                                                                                              uint16_2_binary_str(num, cPtr);
Compact display for 0x1234 is 0001001000110100
                                                                                                               printf("%s", cPtr);
Verbose display for 0x1234 is 0b0001_0010_0011_0100
Compact display for 0x5678 is 0101011001111000
Verbose display for 0x5678 is 0b0101_0110_0111_1000
Compact display for 0x9ABC is 1001101010111100
                                                                                                            void print_str_v(uint16_t num, char *cPtr_c, char *cPtr_v) {
Verbose display for 0x9ABC is 0b1001_1010_1011_1100
                                                                                                              char *cPtr_v_original = cPtr_v;
Compact display for 0xDEF0 is 1101111011110000
                                                                                                              uint16_2_binary_str(num, cPtr_c)
Verbose display for 0xDEF0 is 0b1101_1110_1111_0000
                                                                                                               *(cPtr_v++) = '0';
                                                                                                              *(cPtr_v++) = 'b';
                                                                                                               for(int i = 0; i < 17; i++) {
                                                                                                                    *(cPtr_v + i) = *(cPtr_c + i);
                                                                                                                    if((i + 1) % 4 == 0 && i != 15){
                                                                                                                             *((++cPtr_v) + i) = '_';
                                                                                                              printf("%s\0", cPtr_v_original);
                                                                                                             <hop 1/cec320_sec_1_ws1_wise_tyler_alkhawar_ahmed.c" [dos] 69L, 1710C written</pre>
                                                                                                                                                                                                      57,33
DEV O WWW O SYS RDDL O WORK O MSC O | tyler@tjw-laptop:~/Documents/CEC 320/Workshop 1
                                                                                                                                                              ■ 2.64 GB/11.48 GB (24%) | • Cpu 13% _ _ _ | 0% | 6 2019-02-04 08:27
```

tvler@tjw-laptop:~

tyler@tjw-laptop:~/Documents/CEC 320/Workshop 1