Burak Yesil
"I pledge my honor that I have abided by the Stevens Honor System".

```
user@box:~/shared/CS382/Lab1$ aarch64-linux-gnu-gcc-9 -E test.c > test.i
user@box:~/shared/CS382/Lab1$ cat test.i
# 1 "test.c"
# 1 "<built-in>"
# 1 "<command-line>"
# 31 "<command-line>"
# 1 "/usr/aarch64-linux-gnu/include/stdc-predef.h" 1 3
# 32 "<command-line>" 2
# 1 "test.c"




int main () {
  int a, b, c;
  a = 10;
  b = 15;
  c = a + b;
  return c;
}
user@box:~/shared/CS382/Lab1$ Burak Yesil
Burak: command not found
user@box:~/shared/CS382/Lab1$
```

```
user@box:~/shared/CS382/Lab1$ Burak Yesil
Burak: command not found
user@box:~/shared/CS382/Lab1$ aarch64-linux-gnu-gcc-9 test.c -S
user@box:~/shared/CS382/Lab1$ cat test.s
        .arch armv8-a
        .file   "test.c"
        .text
        .align  2
        .global main
        .type   main, %function
main:
.LFB0:
        .cfi_startproc
        sub     sp, sp, #16
        .cfi_def_cfa_offset 16
        mov     w0, 10
        str     w0, [sp, 4]
        mov     w0, 15
        str     w0, [sp, 8]
        ldr     w1, [sp, 4]
        ldr     w0, [sp, 8]
        add     w0, w1, w0
        str     w0, [sp, 12]
        ldr     w0, [sp, 12]
        add     sp, sp, 16
        .cfi_def_cfa_offset 0
        ret
        .cfi_endproc
.LFE0:
        .size   main, .-main
        .ident  "GCC: (Ubuntu 9.3.0-10ubuntu1) 9.3.0"
        .section        .note.GNU-stack,"",@progbits
user@box:~/shared/CS382/Lab1$
```

```
user@box:~/shared/CS382/Lab1$ aarch64-linux-gnu-as demo.s -o demo.o
user@box:~/shared/CS382/Lab1$ aarch64-linux-gnu-ld demo.o
user@box:~/shared/CS382/Lab1$ aarch64-linux-gnu-ld demo.s -o demo.o -lc
aarch64-linux-gnu-ld:demo.s: file format not recognized; treating as linker script
aarch64-linux-gnu-ld:demo.s:2: syntax error
user@box:~/shared/CS382/Lab1$ aarch64-linux-gnu-ld demo.s -o demo.o -lc
aarch64-linux-gnu-ld:demo.s: file format not recognized; treating as linker script
aarch64-linux-gnu-ld:demo.s:2: syntax error
user@box:~/shared/CS382/Lab1$ qemu-aarch64 a.out
user@box:~/shared/CS382/Lab1$ qemu-aarch64 -L /usr/aarch64-linux-gnu/ a.out
user@box:~/shared/CS382/Lab1$ ls
a.out  demo.s  test.c  test.i  test.s
user@box:~/shared/CS382/Lab1$ Burak Yesil
Burak: command not found
user@box:~/shared/CS382/Lab1$
```