Assignment 6 (Secure Coding)

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```
shillars171@uhumn:~$ gedit a.c
shillars171@uhumn:~$ cat a.c
void f2(int x){
int a;
a=x;
}
void f1(int y){
int b=y;
f2(b);
}
void f0(){
int c=5;
f1(c);
}
```

```
subillustral2111@nhmute:~$ gcc -S a.c
subillustral2121@nhmute:~$ cat a.s
.file "a.c"
.text
.globl f2
.type f2, @function

f2:
.LFB0:

.cfi_startproc
pushq %rbp
.cfi_def_cfa_offset 16
.cfi_offset 6, -16
movq %rsp, %rbp
.cfi_def_cfa_register 6
movl %edi, -20(%rbp)
movl -20(%rbp), %eax
movl %eax, -4(%rbp)
nop
popq %rbp
.cfi_def_cfa 7, 8
ret
.cfi_endproc
.LFE0:
.size f2..-f2
```

```
.globl f1
                 f1, @function
        .type
f1:
.LFB1:
        .cfi_startproc
        pushq %rbp
         .cfi_def_cfa_offset 16
         .cfi_offset 6, -16
                %гѕр, %гЬр
        movq
        .cfi_def_cfa_register 6
subq $24, %rsp
movl %edi, -20(%rbp)
                 -20(%rbp), %eax
        movl
                 %eax, -4(%rbp)
        movl
                 -4(%rbp), %eax
        movl
                 %eax, %edi
        movl
        call
        nop
        leave
         .cfi_def_cfa 7, 8
        ret
        .cfi_endproc
.LFE1:
         .size f1, .-f1
```

```
.globl f0
.type f0, @function
f0:
.LFB2:
            .cfi_startproc
           .cfi_startproc
pushq %rbp
.cfi_def_cfa_offset 16
.cfi_offset 6, -16
movq %rsp, %rbp
.cfi_def_cfa_register 6
subq $16, %rsp
movl $5, -4(%rbp)
movl -4(%rbp), %eax
                        %eax, %edi
            movl
            call
            nop
            leave
            .cfi_def_cfa 7, 8
            ret
            .cfi_endproc
.LFE2:
            .size f0, .-f0
            .ident "GCC: (Ubuntu 7.5.0-3ubuntu1~18.04) 7.5.0"
                                  .note.GNU-stack,"",@progbits
            .section _
```



