CSE 484 In-Class Worksheet #5 – Autumn 2018

Name: _____ UWNetID: _____ Date: _____

Email address: _____

Partner names for this activity: _____

Will you want to pick up your worksheet later? Circle one: Yes / No

Q1: Consider the following function:

```
foo() {
      char buf[…];
      strncpy(buf, readUntrustedInput(), sizeof(buf));
      printf(buf); //vulnerable
}
```

Suppose readUntrustedInput() provides an attack string of the form:

```
… attackString%n … <shellcode> …
```

How might we be able to use one or more "%n"s to overwrite the saved EIP (aka RET) on the stack? (You don't need to give the exact attack; just brainstorm about the general approach you might try.)

Here's what the stack looks like for this program: