**CSE 484 In-class Worksheet #5 – Lecture 6 (Zombie Worksheet!)**

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Partner names for this activity: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q1:** Consider this code:

 **char buf[80];**

 **void vulnerable() {**

 **int len = read\_int\_from\_network();**

 **char \*p = read\_string\_from\_network();**

 **if (len > sizeof buf) {**

 **error("length too large, nice try!");**

 **return;**

 **}**

 **memcpy(buf, p, len);**

 **}**

And note the following definitions:

 **void \*memcpy(void \*dst, const void \* src, size\_t n);**

 **typedef unsigned int size\_t;**

Can you spot any potential problems?

**Q2:**  Consider this code:

 **size\_t len = read\_int\_from\_network();**

 **char \*buf;**

 **buf = malloc(len+5);**

 **read(fd, buf, len);**

Can you spot any potential problems?

**Q3:** What issues, if any, do you see with the following code for password comparisons?

 **// The following is the functional description of the code -- what it should do**

**PwdCheck(RealPwd, CandidatePwd) should:**

 **Return TRUE if RealPwd matches CandidatePwd**

 **Return FALSE otherwise**

**RealPwd and CandidatePwd are both 8 characters long**

**// The following is the implementation, like on the TENEX system**

**PwdCheck(RealPwd, CandidatePwd) // both 8 chars**

 **for i = 1 to 8 do**

 **if (RealPwd[i] != CandidatePwd[i]) then**

 **return FALSE**

 **return TRUE**

**Q4:** Is there anything from the software security section of the course that you found particularly confusing? Anything that you particularly liked? Anything else you’d like to ask or share?