CSE 484 In-class Worksheet #4 - Fall 2017 - Lecture 5 Name: _____ UW Student #: ____ Date: ____ Email address: Partner names for this activity: Q1: The goal of this code is to allow a program to open regular files, but not symlinks. int openfile(char *path) { struct stat s; if (stat(path, &s) < 0)return -1; if (!S ISRREG(s.st mode)) { error("only allowed to regular files!"); return -1; } return open(path, O_RDONLY); Can you spot any potential problems? **Q2:** 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? Q3: 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?

Q4: 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

Q5: Any questions / comments / feedback you'd like to share?