**CS2750 System programming and Tools Fall 2018**

**KEY TO** **QUIZ #8 [7 points]**

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1. [2 points] Find 2 errors in the following code fragment:

**if** (fscanf(file1, “%d”, number) == 0)

{ // do something

}

Write the corrected code:

*Answer*:

**if** (fscanf(file1, “%d”, & number) != 1)

{ // do something

}

*It was necessary to have ‘&’ in front of the name of the variable number and change the condition in* ***if*** *structure.*

1. [3 points] The program is supposed to open a file File1 for reading only and close it when all actions are completed. Insert 3 lines that are necessary to make the program shown below correct; you are not required to show the checking procedure.

#include<stdio.h>

#include<stdlib.h>

int main (){

FILE \* fptr; < - - - - - - line #1: declaration

fptr = fopen(“File1”, “r”); < - - - - - - line #2: opening a file for reading

/\* do something with the file File1 \*/

fclose(fptr); < - - - - - - line #3: closing a file

return 0;

}

1. [2 points] Show two ways how to request memory from a heap for allocating an array of 100 integers.
2. **int** \* arr;

arr = (**int** \*) calloc(100, sizeof(**int**));

1. **int** \* arr;

arr = (**int** \*) malloc(100 \* sizeof(**int**));

Note that explicit casting (**int** \*) is not required in all systems.