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CSE031

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Lab 2: Writing Assignment

TPS Activity #2:

1. In order to debug punishment.c, you must compile the program by using the -g flag

(gcc -g -o punish punishment.c).

1. You can load the program into the GDB by using the command: gdb punish.
2. To run in the GDB, use the run command.
3. A breakpoint is a point in which the program will stop running. To set a breakpoint, use the command: break [line] (ex: break 24).
4. To see the value of a variable, use the command “print VariableName.”
5. Use the command “continue” to allow the program to finish its run.
6. Use “quit” to exit the GDB.

TPS Activity #3:

1. There four variables and two pointers. The variables are x, y, \*px, \*py and the pointers are \*px and \*py.
2. The values of x, y, and arr[0] will be set to garbage because they were not initialized.
3. To prevent unexpected values for x, y, and arr you must initialize them.
4. Array names are the same as pointers in the sense that arrays always point to the beginning of the array, unless told to point to different elements in the array. printf("%d\n", \*(arr + i));
5. The result makes sense because the address of the array is the address of the head.

Segmentation Fault:

1. Values caused the segmentation because it was not initialized.
2. To fix the line initialize it.
3. The read\_values method was only returning values and not sum, so when calculated in line 25 the code was producing the wrong output.
4. In line 17, change the return statement to: return sum/values. Then declare and initialize a new variable. Next set it equal to read\_values(sum). Lastly, in the print statement in line 25 replace “sum/values” with the new variable.

AppendTest:

1. HELLO!hello!llo! is the not the expected output.
2. The output is not expected. The bug is within the for loop, where k<s2len. K<s2len does not allow the code to append the two statements because it does run for the complete length of the final statement. To fix the code change the for loop to include: k<(s1len + s2len).
3. The output is not expected, but occurs because the arrays for str1 and str2 can only hold 10 characters.