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Assignment 5

2/24/17

6-01.) My program successfully takes ten integers and then stores them all in an array. The program also outputs a menu asking if the user wants to sort the array in ascending or descending order. The menu is not functional.

```
C:\Users\iamam\Desktop\School\CECS 130\HW\HW 5\problem_06_01.exe
Enter an integer: 1
Enter an integer: 2
Enter an integer: 3
Enter an integer: 4
Enter an integer: 5
Enter an integer: 6
Enter an integer: 7
Enter an integer: 8
Enter an integer: 9
Enter an integer: 10

What would you like to do with the array?
1) Print the array in ascending order.
2) Print the array in descending order.

-----
Process exited after 9.412 seconds with return value 0
Press any key to continue . . .
```

6-02.) My program successfully takes up to 30 GPAs as floats, stores them in an array, and calculates their average whenever the user is done entering the GPAs.

```
C:\Users\iamam\Desktop\School\CECS 130\HW\HW 5\problem_06_02.exe
Enter a GPA: 4.0
Enter (1) to calculate the average GPA.
Enter (2) another GPA.
What do you want to do? 2
Enter a GPA: 3.6
Enter (1) to calculate the average GPA.
Enter (2) another GPA.
What do you want to do? 2
Enter a GPA: 1.2
Enter (1) to calculate the average GPA.
Enter (2) another GPA.
What do you want to do? 1
The average GPA of the class is 2.93
-----
Process exited after 18.72 seconds with return value 0
Press any key to continue . . .
```

7-01.) My program successfully initializes an integer, character, and float as well as pointer values that point to those variables. It then prints the values of both the pointers and nonpointers and then prints the memory address of both the pointers and nonpointers.


```
C:\Users\iamam\Desktop\School\CECS 130\HW\HW 5\problem_07_01.exe
The values of the nonpointer variables
iNumber 1
cCharacter a
fNumber 1.11

The values of the pointer variables
iPtr 000000000062FE44
cPtr 000000000062FE37
fFloat 000000000062FE24

The addresses of the nonpointer variables
iNumber 000000000062FE44
cCharacter 000000000062FE37
fNumber 000000000062FE24

The addresses of the pointer variables
iPtr 000000000062FE48
cPtr 000000000062FE38
fFloat 000000000062FE28
-----
Process exited after 0.03805 seconds with return value 0
Press any key to continue . . .
```

7-03.) My program successfully allows the user to input the amount of die he/she wants to roll up to 6, creates an array of that size, and then uses the TossDie() function to generate the random values for the dice and store them in the values array. The program then prints the values of all the dice.

 C:\Users\jamam\Desktop\School\CECS 130\HW\HW 5\problem_07_03.exe

Roll up to six die.

How many die do you want to roll? 8

That is too many die.

Roll up to six die.

How many die do you want to roll? 9

That is too many die.

Roll up to six die.

How many die do you want to roll? 6

The value of die 1 is 5

The value of die 2 is 4

The value of die 3 is 2

The value of die 4 is 1

The value of die 5 is 3

The value of die 6 is 5

Process exited after 6.354 seconds with return value 6

Press any key to continue . . . 