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CS 317 – Assignment 4


### Problem 1 – Time Calculator

Negative Input:

 Microsoft Visual Studio Debug Console


```
Please enter the number of seconds you wish to calculate:
-5
Please enter a positive number next time.
C:\Users\newuser\OneDrive\Documents\Athens State\CS317\Assignment4\RobbinsAsg4\Debug\RobbinsAsg4.exe (process 18564) exited with code 0.
Press any key to close this window . . .
```

Minutes:

 Microsoft Visual Studio Debug Console

```
Please enter the number of seconds you wish to calculate:
65
The time given by the number of seconds entered is:
1 minute(s)
5 second(s)
C:\Users\newuser\OneDrive\Documents\Athens State\CS317\Assignment4\RobbinsAsg4\Debug\RobbinsAsg4.exe (process 11436) exited with code 0.
Press any key to close this window . . .
```


Hours:

 Microsoft Visual Studio Debug Console

```
Please enter the number of seconds you wish to calculate:
3605
The time given by the number of seconds entered is:
1 hour(s)
5 second(s)
C:\Users\newuser\OneDrive\Documents\Athens State\CS317\Assignment4\RobbinsAsg4\Debug\RobbinsAsg4.exe (process 13392) exited with code 0.
Press any key to close this window . . .
```

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Days:

 Microsoft Visual Studio Debug Console

```
Please enter the number of seconds you wish to calculate:
86465
The time given by the number of seconds entered is:
1 day(s)
1 minute(s)
5 second(s)
C:\Users\newuser\OneDrive\Documents\Athens State\CS317\Assignment4\RobbinsAsg4\Debug\RobbinsAsg4.exe (process 12844) exited with code 0.
Press any key to close this window . . .
```

## Problem 2: Vibe 5K Color Run


Display #1:

 Microsoft Visual Studio Debug Console

```
Please enter the name of the first member of your team:
Zac
Please enter the name of the second member of your team:
Kat
Please enter the name of the third member of your team:
Andrew
Has Zac run this race before? (Y/N)
n
C:\Users\newuser\OneDrive\Documents\Athens State\CS317\Assignment4\RobbinsAsg4\Debug\RobbinsAsg4.exe (process 17436) exited with code 0.
Press any key to close this window . . .
```

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Display #2:


 Microsoft Visual Studio Debug Console

```
Please enter the name of the first member of your team:
Zac
Please enter the name of the second member of your team:
Kat
Please enter the name of the third member of your team:
Daisy
Has Zac run this race before? (Y/N)
Y
Please enter the current time for Zac in seconds:
10625
Please enter the previous time for Zac in seconds:
9582
Don't give up, you'll get faster next time!
Your average time between the two races is:
2 hour(s)
48 minute(s)
23 second(s)
Has Kat run this race before? (Y/N)
N
Please enter the current time for Kat in seconds:
4598
1 hour(s)
16 minute(s)
38 second(s)
Has Daisy run this race before? (Y/N)
N
Please enter the current time for Daisy in seconds:
6289
1 hour(s)
44 minute(s)
49 second(s)
First Place: Kat
Second Place: Daisy
Third Place: Zac

C:\Users\newuser\OneDrive\Documents\Athens State\CS317\Assignment4\RobbinsAsg4\Debug\RobbinsAsg4.exe (process 7728) exited with code 0.
Press any key to close this window . . .
```

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Display #3:

 Microsoft Visual Studio Debug Console

```
Please enter the name of the first member of your team:
Zac
Please enter the name of the second member of your team:
Kat
Please enter the name of the third member of your team:
Daisy
Has Zac run this race before? (Y/N)
N
Please enter the current time for Zac in seconds:
4747
1 hour(s)
19 minute(s)
7 second(s)
Has Kat run this race before? (Y/N)
Y
Please enter the current time for Kat in seconds:
6789
Please enter the previous time for Kat in seconds:
6987
Congratulations, you improved your time!
Your average time between the two races is:
1 hour(s)
54 minute(s)
48 second(s)
Has Daisy run this race before? (Y/N)
Y
Please enter the current time for Daisy in seconds:
5768
Please enter the previous time for Daisy in seconds:
5658
Don't give up, you'll get faster next time!
Your average time between the two races is:
1 hour(s)
35 minute(s)
13 second(s)
First Place: Zac
Second Place: Daisy
Third Place: Kat

C:\Users\newuser\OneDrive\Documents\Athens State\CS317\Assignment4\RobbinsAsg4\Debug\RobbinsAsg4.exe (process 18484) exited with code 0.
Press any key to close this window . . .
```

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Display #4:

Microsoft Visual Studio Debug Console

```
Please enter the name of the first member of your team:
Zac
Please enter the name of the second member of your team:
Kat
Please enter the name of the third member of your team:
Daisy
Has Zac run this race before? (Y/N)
N
Please enter the current time for Zac in seconds:
4175
1 hour(s)
9 minute(s)
35 second(s)
Has Kat run this race before? (Y/N)
N
Please enter the current time for Kat in seconds:
8475
2 hour(s)
21 minute(s)
15 second(s)
Has Daisy run this race before? (Y/N)
Y
Please enter the current time for Daisy in seconds:
3795
Please enter the previous time for Daisy in seconds:
4005
Congratulations, you improved your time!
Your average time between the two races is:
1 hour(s)
5 minute(s)
0 second(s)
First Place: Daisy
Second Place: Zac
Third Place: Kat

C:\Users\newuser\OneDrive\Documents\Athens State\CS317\Assignment4\RobbinsAsg4\Debug\RobbinsAsg4.exe (process 9816) exited with code 0.
Press any key to close this window . . .
```

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Display #5:

```
Microsoft Visual Studio Debug Console
Please enter the name of the first member of your team:
Zac
Please enter the name of the second member of your team:
Kat
Please enter the name of the third member of your team:
Daisy
Has Zac run this race before? (Y/N)
N
Please enter the current time for Zac in seconds:
4985
1 hour(s)
23 minute(s)
5 second(s)
Has Kat run this race before? (Y/N)
N
Please enter the current time for Kat in seconds:
2952
1 hour(s)
49 minute(s)
12 second(s)
Has Daisy run this race before? (Y/N)
N
Please enter the current time for Daisy in seconds:
-894

C:\Users\newuser\OneDrive\Documents\Athens State\CS317\Assignment4\RobbinsAsg4\Debug\RobbinsAsg4.exe (process 13072) exited with code 0.
Press any key to close this window . . .
```

### Problem 3: Combined Assignment Operators

- 1) For line 21-22 (the last “else if” statement) to work, the lines need to be placed before the trailing else statement on line 19.
- 2) The “cout” statement that starts at the end of line 8 and continues in line 9 needs to just be moved to entirely be on line 9. With the statement separated, an error occurs that requires a quotation and semicolon at the end of line 8 and a new, separate cout statement for the rest of line 9.