Coding Journey Report

Data visualizations and summaries for exploring a coding journey.

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Task name: Question 2

Typing Time: 6 minutes 30 seconds

Total time spent: 1 day 11 hours 38 minutes 7 seconds

Average typing speed: 38 character(s)/minute

Number of lines: 44

Number of characters: 848

Number of time points: 79 (Logged at 5 seconds)

Interactive version of this report is available here.

Question:

1.write a program tofind sum and difference of two complex numbers using concept of constructor and fuction overloading

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Final Code

If the code contains more than one file, they are concatenated and shown.

```
==+==
FILE: Main.cpp
==+==

/* Sum and difference using constructor and function overloading */
#include <iostream>
using namespace std;

class complex{

    int real;
    int img;
    public:
    complex()
    {
        real=0;
        img=0;
    }

    complex(int x,int y)
    {
        real=x;
        img=y;
    }

    void op(complex a,complex b)
    {
        real=a.real+b.real;
        img=a.img+b.img;
    }

    complex op(complex pass)
    {
        complex result;
        result.real=real-pass.real;
        result.img=img-pass.img;
        return result;
    }

    void display()
    {
        cout<<real<<"+"<<img<<"i"<<endl;
    }
};
int main() {
    complex x(3,4),y(1,2),sum,diff;
    sum.op(x,y);
    diff=x.op(y);
    cout<<"Sum:"<<endl;
    sum.display();
    cout<<"Difference:"<<endl;
    diff.display();
    return 0;
};
```

Final Execution Output

Output of the most recent code execution.

```
Sum:
4+6i
Difference:
2+2i
```

Most Common Error

The most common error that occured during the coding process; "null" (if any) indicates no errors.

```
STDERR:
Main.cpp: In member function 'complex complex::op(complex)':
Main.cpp:30:9: error: 'temp' was not declared in this scope; did you mean 'mktemp'?
   30 |         temp result;
      |         ^~~~
      |         mktemp
Main.cpp:31:9: error: 'result' was not declared in this scope
   31 |         result.real=real+pass.real;
      |         ^~~~~~


EXCEPTION:
Error: Command failed: timeout 7 g++ -o Main Main.cpp
Main.cpp: In member function 'complex complex::op(complex)':
Main.cpp:30:9: error: 'temp' was not declared in this scope; did you mean 'mktemp'?
   30 |         temp result;
      |         ^~~~
      |         mktemp
Main.cpp:31:9: error: 'result' was not declared in this scope
   31 |         result.real=real+pass.real;
      |         ^~~~~~
```
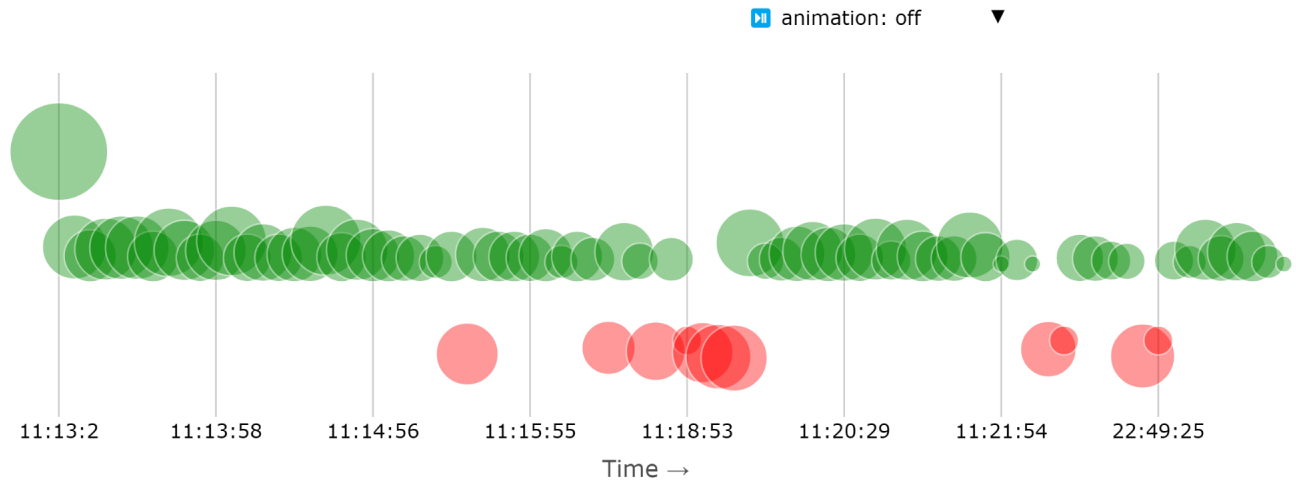
Effort Summary

Active durations while working on the task, shown as green bars.
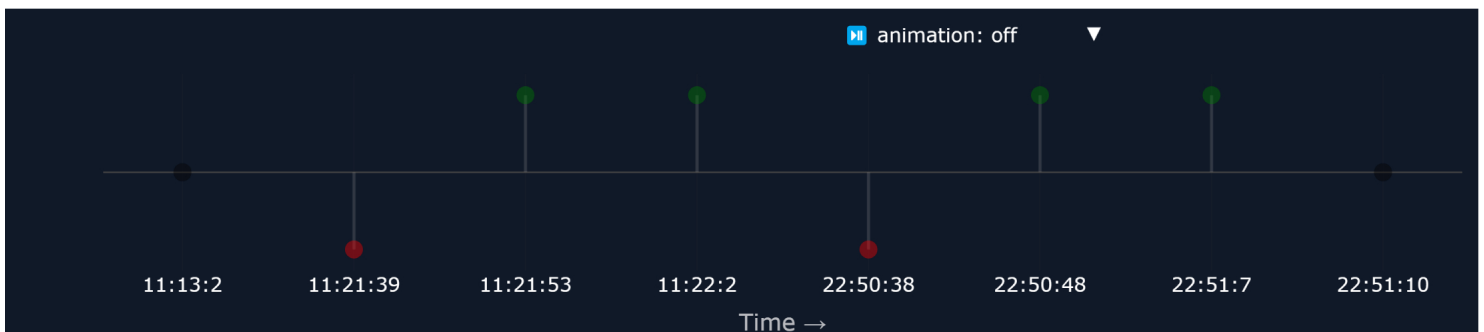
Thinking:
1 day 11 hours 26 minutes 15 seconds

Text Added or Removed Over Time

Green and red circles show text add and removed; size of the circle shows change in the number of characters.

animation: off ▼
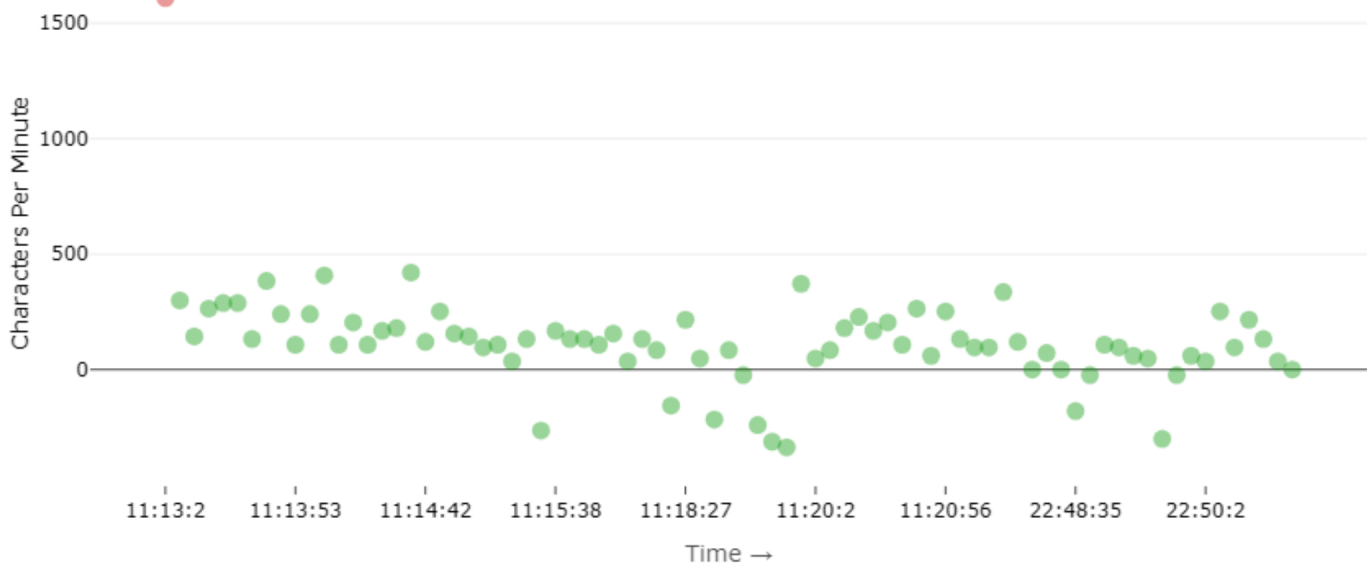
11:13:2   11:13:58   11:14:56   11:15:55   11:18:53   11:20:29   11:21:54   22:49:25

Time →

Code Executions

Green and red dots correspond to successful and failed executions.

animation: off ▼

11:13:2   11:21:39   11:21:53   11:22:2   22:50:38   22:50:48   22:51:7   22:51:10

Time →

Typing Speed

Typing speed can be negative when text is deleted.

▶❚ animation: off   ▼

Characters Per Minute

1500

1000

500

0

11:13:2   11:13:53   11:14:42   11:15:38   11:18:27   11:20:2   11:20:56   22:48:35   22:50:2

Time →

Edited Line Locations (inactive durations not shown)

Each edited line block is assigned a color; highlighted bars show the line(s) edited at that time point.

▶❚ animation: off   ▼

Time (Time Points) →