

## Program 3

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### Coding Journey Summary:

- 🕒 4 minutes 20 seconds of active typing | 14 minutes 25 seconds total duration
- 📄 693 characters | 37 lines
- ✂️ Typing speed: 46 character(s) per minute | Revisions: 52 (logging interval: 5 seconds)
- 🌐 Interactive version of this report is [available here](#).

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## Final Code

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

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==+==

FILE: Main.cpp

==+==

```
/* WAP TO OVERLOAD PLUS OPERATOR TO ADD TWO COMPLEX NUMBERS USING FRIEND FUNCTION */
#include <iostream>
using namespace std;

class complex
{
    int real;
    int img;

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

    complex(int a,int b)
    {
        real=a;
        img=b;
    }

    friend complex operator+(complex,complex);

    void display()
    {
        cout<<real<<"+"<<img<<"i";
    }
};

complex operator+(complex a,complex b)
{
    complex temp;
    temp.real=a.real+b.real;
    temp.img=a.img+b.img;
    return temp;
}

int main() {
    complex A(1,2),B(2,3),result;
    result=A+B;
    result.display();
    return 0;
};
```

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## Final Execution Output

Output of the most recent code execution.

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3+5i

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## Most Common Error

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

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EXCEPTION:

main.cpp: In function 'complex operator+(complex)':

main.cpp:33:15: error: 'real' was not declared in this scope

```
33 |     temp.real=real+b.real;
    |               ^~~~
```

main.cpp:34:14: error: 'img' was not declared in this scope

```
34 |     temp.img=img+b.img;
    |               ^~~
```

main.cpp: In function 'int main()':

main.cpp:40:13: error: no match for 'operator+' (operand types are 'complex' and 'complex')

```
40 |     result=A+B;
    |             ~^~
    |             | |
    |             | complex
    |             complex
```

main.cpp:30:9: note: candidate: 'complex operator+(complex)'

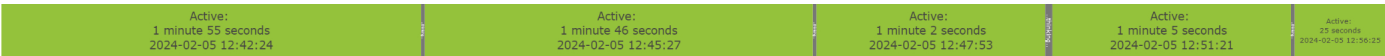
```
30 | complex operator+(complex b)
    | ^~~~~~
```

main.cpp:30:9: note: candidate expects 1 argument, 2 provided

In file included from /usr/local/gcc-9.2.0/include/c++/9.2.0/bits/stl\_algobase.h:67,  
from /usr/local/gcc-9.2.0/include/c++/9.2.0/bits/char\_traits.h:39,  
from /usr/local/gcc-9.2.0/include/c++/9.2.0/ios:40,  
from /usr/lo... [too long EXCEPTION trimmed]

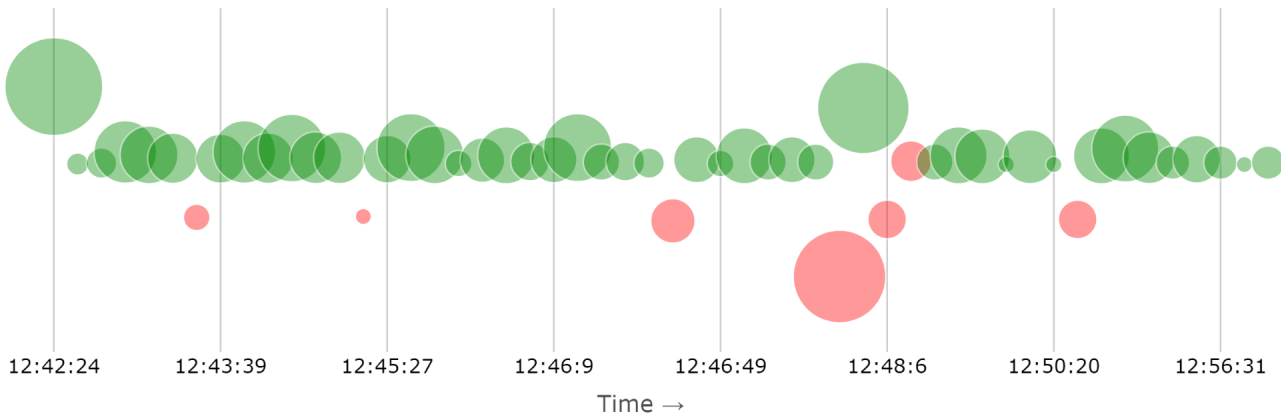
## Active Sessions

Active typing sessions while working on the task, shown as green bars.



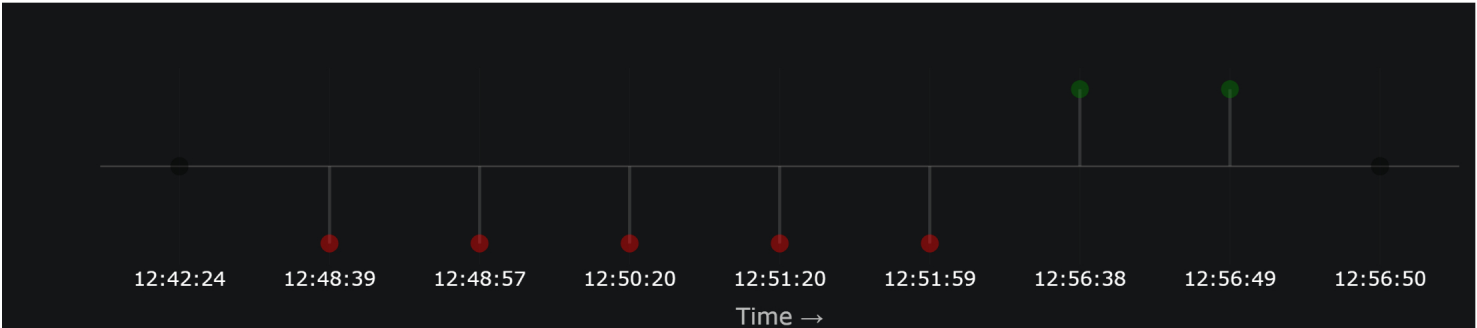
## Text Added or Removed Over Time

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



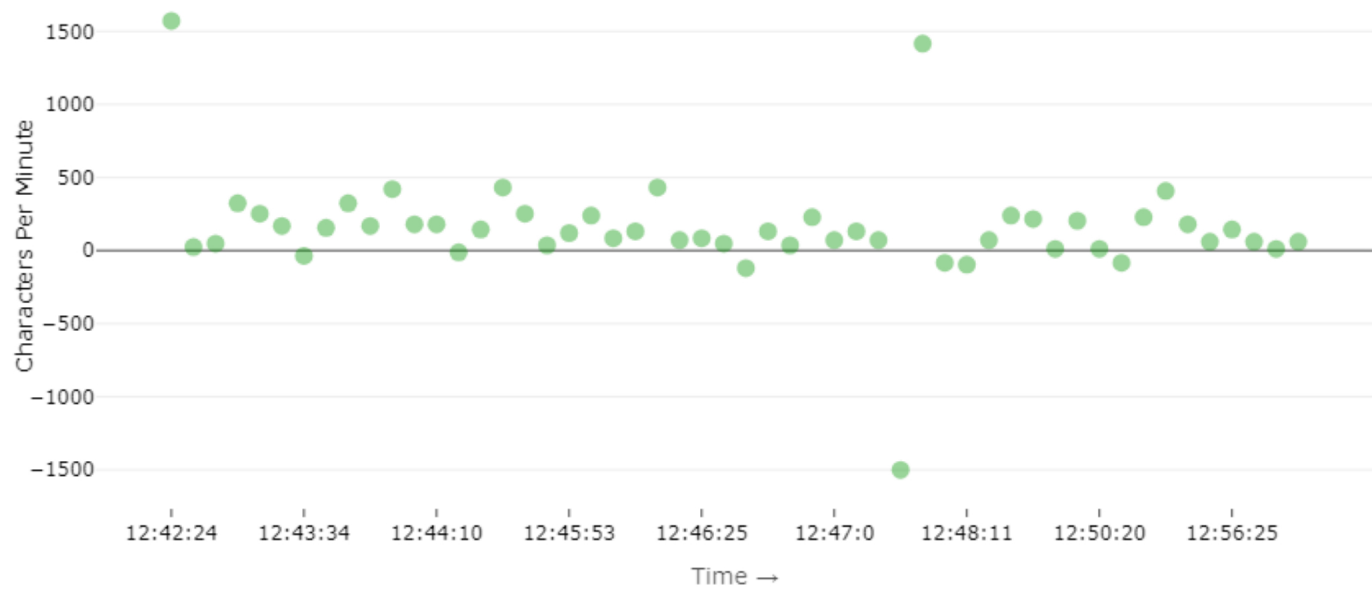
## Code Executions

Green and red dots correspond to successful and failed executions.



# Typing Speed

Typing speed can be negative when text is deleted.



## Edited Line Locations

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

