Coding Journey Report

Data visualizations and summaries for exploring a coding journey.

Author: Joyash Shrestha
Task name: Question 1

Typing Time: 5 minutes 10 seconds
Total time spent: 10 minutes 51 seconds
Average typing speed: 35 character(s)/minute

Number of lines: 26
Number of characters: 722
Number of time points: 63 (Logged at 5 seconds)
Interactive version of this report is available here.

Question:
Lab question
1.Explain the order of constructor and destructor invocation in oop with example.

Final Code

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

```
==+==

FILE: Main.cpp

==+==

/* Order of constructor and destructor invocation */
#include <iostream>
using namespace std;

class ab{
    int x;
    public:
    ab(int a)
    {
        x=a;
        cout<<"Constructor "<<x<<" created."<<endl;
    }
    ~ab()
    {
        cout<<"Constructor "<<x<<" destructed."<<endl;
    }
};

int main() {
    ab a(1),b(2),c(3);
    return 0;
};
/*
Here, we can see that the constructor is executed in the order it is written. a(1) then b(2) then c(3) but the
destructor is called in reverse order of constructor.
The constructor which is created last is destructed first and the constructor which is created first gets
destrcuted last.

constructor -> a->b->c
destructor -> c->b->a
*/
```

```
Constructor 1 created.
Constructor 2 created.
Constructor 3 created.
Constructor 3 destructed.
Constructor 2 destructed.
Constructor 1 destructed.
```

Most Common Error

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

```
STDERR:
Main.cpp: In destructor 'ab::~ab()':
Main.cpp:14:30: error: 'x' was not declared in this scope
   14 |         cout<"Constructor "<<x<<" destructed.";
      |                              ^


EXCEPTION:
Error: Command failed: timeout 7 g++ -o Main Main.cpp
Main.cpp: In destructor 'ab::~ab()':
Main.cpp:14:30: error: 'x' was not declared in this scope
   14 |         cout<"Constructor "<<x<<" destructed.";
      |                              ^
```
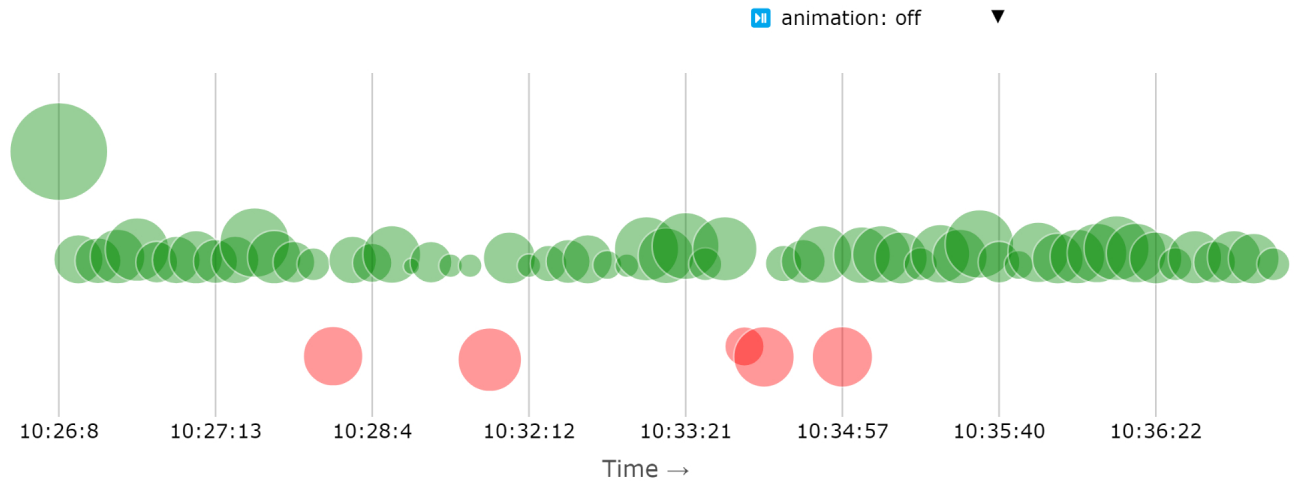
Effort Summary

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

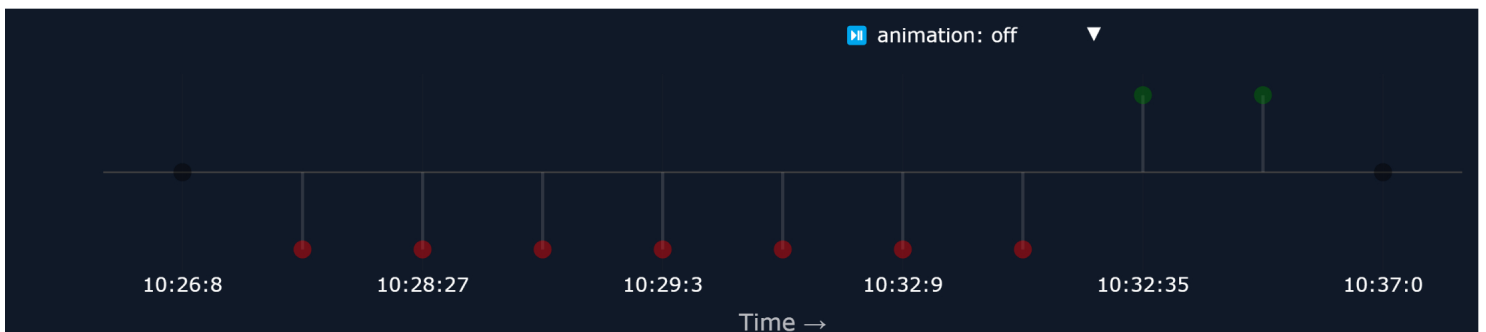| Active: 2 minutes 56 seconds	Thinking: 2 minutes 44 seconds	Active: 2 minutes 18 seconds	Thinking: 49 seconds	Active: 2 minutes 2 seconds

Text Added or Removed Over Time

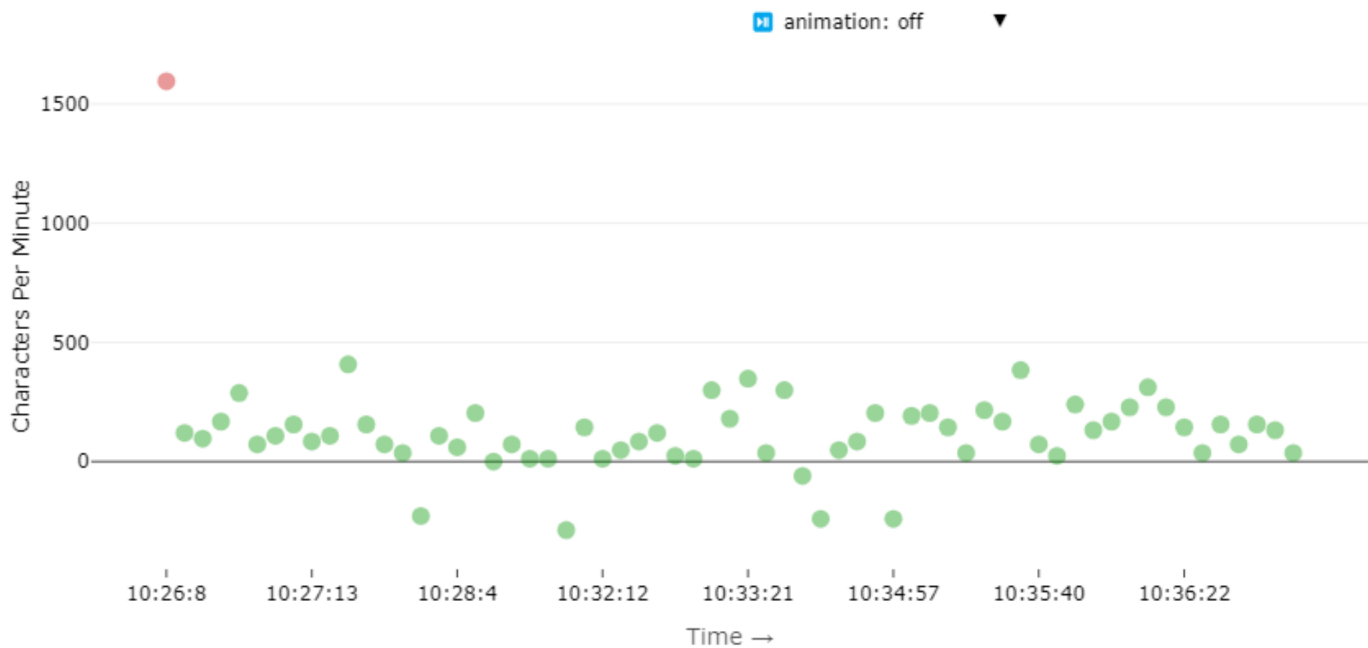Green and red circles show text add and removed; size of the circle shows change in the number of characters.

⏸ animation: off ▼

10:26:8 10:27:13 10:28:4 10:32:12 10:33:21 10:34:57 10:35:40 10:36:22

Time →

Code Executions

Green and red dots correspond to successful and failed executions.

⏸ animation: off ▼

10:26:8 10:28:27 10:29:3 10:32:9 10:32:35 10:37:0

Time →

Typing Speed

Typing speed can be negative when text is deleted.

Characters Per Minute vs Time →

1500

1000

500

0

10:26:8   10:27:13   10:28:4   10:32:12   10:33:21   10:34:57   10:35:40   10:36:22

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.

Time (Time Points) →