

MTH 4300: Algorithms, Computers and Programming II

Fall 2025

Section: STRA

Quiz 1 (10 points)

Write a complete C++ program that:

1. Prompts the user to enter a total number of seconds
2. Converts the seconds into hours, minutes, and remaining seconds
3. Displays the result in the format "X hours, Y minutes, Z seconds"

Sample output:

Enter the total number of seconds: 7265

7265 seconds = 2 hours, 1 minutes, 5 seconds

A possible solution looks like the following:

```
#include <iostream>

int main() {
    int seconds, hours, minutes, remaining_seconds;
    std::cout << "Enter the total number of seconds: ";
    std::cin >> seconds;

    hours = seconds / 3600;
    minutes = (seconds % 3600) / 60;
    remaining_seconds = seconds % 60;

    std::cout << seconds << " seconds = " << hours << " hours, " << minutes
              << " minutes, " << remaining_seconds << " seconds" << std::endl;
    return 0;
}
```