

601.220 Intermediate Programming

Spring 2023, Day 36 (April 21st)

Today's agenda

- Exercise 35 review
- Work on final project

Reminders/Announcements

- Final project due by 11pm on **Friday, April 28th**

Exercise 35 review

Checking whether file was opened successfully in `readFile` function:

```
std::ifstream fin(filename);  
if (!fin.is_open()) {  
    throw std::ios_base::failure("could not open file");  
}
```

Exercise 35 review

Handling the exception in main:

```
std::vector<int> numbers;
try {
    numbers = readFile(argv[1]);
    // ...code to print out the values in the vector...
    return 0;
} catch (std::ios_base::failure &ex) {
    std::cerr << "Error: " << ex.what() << "\n";
    return 1;
}
```

Exercise 35 review

Seeing what happens when readFile reads non-integer data:

```
$ ./exceptionExercise nonIntData.txt  
Error: File contains non-integer data!
```

Handling std::invalid_argument in main:

```
try {  
    // code calling readFile  
} catch (std::ios_base::failure &ex) {  
    std::cerr << "Error: " << ex.what() << "\n";  
    return 1;  
} catch (std::invalid_argument &ex) {// <-- another catch block  
    std::cerr << "Error: " << ex.what() << "\n";  
    return 1;  
}
```

Work on final project

Let us know if you have any questions!

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