

## Lab 14

Enter the Divide by Zero exception program seen in class. Add a loop to have the user re-enter the number if an exception was thrown.

### Homework 14.1

Write a program that has the following:

- a function to prompt and get 2 integers from the user (not in main)
- a function that
  - returns the sum of the numbers IF it is less than or equal to 1024
  - OR throws an exception if the sum is greater than 1024
  - the exception should be of type **sumException**

In main()

- call the function to get the numbers
- call the function that adds the numbers or throws an exception
- display the results of adding the two numbers OR handles the exception

## Homework 14.2

Write a program using vectors and iterators that reads the titles of books from a file and loads them into a vector.

- a function to load the vector
- a function to prompt the user for a book title to display
  - throw exception if appropriate
- a function to display all the titles of the books

In main()

- define a vector
- call the function to load the vector
- loop until the user wants to exit
  - call function to prompt the user for which book to display
    - allow the user to choose to search by number
    - enter a number - display the title of the book
      - entering a number larger than the number of books stored in the array IS an exception, **use a vector member function that will throw it for you**
  - handle exceptions
- call function to display all the book titles after the user has exited the loop

## Rubric for Homework

Comments	.2 pts
Consistency/Readability	.2 pts
- Spacing / Indentation/ Uniformity	
Program works	1 pt
Required elements	.6 pts