

# FILE IO

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## Problem Solving with Computers-I

<https://ucsb-cs16-wi17.github.io/>

C++

```
#include <iostream>
using namespace std;

int main(){
    cout<<"Hola Facebook\n";
    return 0;
}
```



# How far along are you with lab01?

- A. Haven't started yet
- B. Working on myProg01 (simple loop exercise)
- C. Completed myProg01, working on myProg02
- D. Almost done
- E. Done!

# Review: Passing parameters to a C++ program

```
int main( int argc, char *argv[] ) {...}
```

What are the values of argc and the elements of argv in each of the following cases?

	argc	argv
<code>\$ ./fizzbuzz</code>		
<code>\$ ./fizzbuzz 1</code>	1	
<code>\$ ./fizzbuzz abc</code>		abc
<code>\$ ./fizzbuzz 1 2 3</code>	3	1 2 3

**Let's continue with the fizzbuzz coding example**

**New concepts: Standard error, files, strings**

# Passing arguments to main: ./fizzbuzz number

```
int main(int argc, char* argv[] ) {  
    if (argc != 2)  
        cerr<<"Usage: "<<argv[0]<<" <number>\n";  
  
    //stoi is only available in C++11  
    fizzbuzz(stoi(argv[1]));  
    return 0;  
}
```

Which of the following will result in a run-time error, causing the program to crash?

- A. `./fizzbuzz 1000`
- B. `./fizzbuzz 1 2 3`
- C. `./fizzbuzz abc`
- D. B and C
- E. A, B and C

# FILE IO:

```
ifstream ifs;  
ifs.open("numbers.txt");  
ifs.fail();  
getline(ifs, line);  
ifs.eof();
```

Which of the following statements is TRUE?

- A. The usage of the 'open' function shown above is incorrect
- B. A single call to `getline(ifs, line)` reads all lines from file until the end of file is reached
- C. If the file "numbers.txt" does not exist, the following statement will result in a run-time error: `ifs.open("numbers.txt");`
- D. Each time `getline(ifs, line)` is called, the program reads the next line in the file
- E. All the above statements are true

# FILE IO: Which of the following is correct?

**A.**

```
while (1) {  
    getline(ifs, line);  
    if (ifs.eof())  
        break;  
    fizzbuzz(stoi(line));  
}
```

**B.**

```
while (!ifs.eof()) {  
    getline(ifs, line);  
    fizzbuzz(stoi(line));  
}
```

**C.** Both A and B are correct

**D.** Neither is correct

# Next time

- Number and data representation