

Midterm review

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Practice Exercise 1

Suppose a function,

```
bool f(int) ;
```

is given, which computes some property of integers.

Write a main program that tests if **f(i)** is true for all $0 \leq i < 100$, and, if so, prints a message.

Practice Exercise 2

What is the output of:

```
int main() {  
    int i=2;  
    i += /* 5;  
    i += */ 6;  
    cout << i << endl;  
    return 0;  
}
```

Practice Exercise 3

Suppose a function

```
bool f(int) ;
```

is given, which is true for some negative input value.

Write a main program that finds the (negative) input with smallest absolute value for which `f` is true.

Practice Exercise 4

- What are the three access levels for class members/data and methods/functions?
- What is the name of the method that creates an object?
- T or F - for every class, you must write a destructor function
- T or F - each class' variables are accessible only within the class (not **main**)
- What is the scope of a variable

Practice Exercise 5

- T or F - passing a parameter by reference to a function ensures that parameter is unchanged.
- T or F - parameters passed by value are copied into the function
- T or F - In C++, passing by reference is the default method.