

**PIC 10A 1C Week 7b. Mini quiz. TA: Eric Kim.**

**1. Fairly Odd Program [3 minutes]**

Write a program that asks the user for two integers a and b, and outputs all odd numbers between a and b (including a and/or b if they happen to be odd). An example output:

```
Enter two integers: 2 7
3
5
7
```

```
#include <iostream>
```

```
int main() {
```

```
    int a, b;
```

```
    cout << "Enter two integers: ";
```

```
    for (int i = a; i <= b; ++i) {
```

```
    }
```

```
    return 0;
```

```
}
```

## 2. Fibonacci [3 minutes]

The Fibonacci sequence is the sequence of numbers: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, etc. Each term is the sum of the previous two terms:  $1+1=2$ ,  $1+2=3$ ,  $2+3=5$ ,  $5+3=8$ , etc.

Write a program that outputs the first N fibonacci numbers, where N is an integer given by the user. Pretend you are writing a brand-new cpp file (ie include any necessary headers). Use the following Fib class interface in your main() function:

```
class Fib {
public:
    Fib(); // Constructor
    unsigned int compute(unsigned int n); // Outputs the n-th term
                                           // of the Fib sequence
};
```

Here's the expected output:

```
Enter an integer: 5
The first 5 fib numbers are:
0
1
1
2
3
```

```
// YOUR CODE HERE
```