## **Lab 4**

## Program One

Write a C++ program that reads the year values determines wheather each of the years is a leap year or not.

Here is an example of the data:

Your program reads in one year value, determines whether it is a leap year, output the result, and move on to read and process the next year value. Keep doing this until all the year values are processed

An example program output for this data file is shown below:

yes no yes no no no no yes yes

## Program Two

Write a C++ program that simulates flipping a coin repeatedly and continues until three consecutive heads are tossed. At that point, your program should display the total number of coin flips that were made. Use rand() function to simulate random toss of the coin.

Here are a few example runs of the program:

Sample run 1:

Head Tail Tail Head

```
Head
Tail
Head
Tail
Head
Tail
Head
Head
Head
```

It took 11 flips to get 3 consecutive heads.

## Sample run 2:

Tail

Head

Tail

Tail

Tail

Tail

Head

Head

Tail

Head

Tail

Head

Head

Tail

Tail

Head

Head

Head

It took 18 flips to get 3 consecutive heads.