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Section 5, Problem 18

```
1  #include <iostream>
2  #include <stdlib.h>
3
4  using namespace std;
5
6  int main(){
7
8      for(int i = 0; i < 1000; i++){
9          if (i % 3 == 0){
10             cout << "Buzz" << endl;
11         } else if (i % 5 == 0){
12             cout << "Fizz" << endl;
13         } else if (i % 3 == 0 && i % 5 == 0){
14             cout << "FizzBuzz" << endl;
15         } else {
16             cout << i << endl;
17         }
18     }
19
20     return 0;
21 }
```

Section 5, Problem 25

```
1  #include <iostream>
2  #include <stdlib.h>
3
4  using namespace std;
5
6  int main(){
7
8      bool success = false;
9      int entry;
10
11     while( !success ){
12         cout << "Enter an integer (but if it's not between 1
13             and 100, I'll just ask again): ";
14         cin >> entry;
15
16         if(entry > 1 && entry < 100){
17             success = true;
18         }
19
20     }
21
22     return 0;
23 }
```

## Section 5, Problem 29

```
1  #include <iostream>
2  #include <stdlib.h>
3
4  using namespace std;
5
6  int main(){
7
8  int x = 1;
9  while(x < 5){
10
11     for(int i = 1; i <= x; i++){
12         cout << i;
13         x+=i;
14         break;
15     }
16     cout << ",";
17 }
18 return 0;
19 } //prints out: 1, 1, 1, 1,
```

## Section 5, Longer Problems 3

```
1  #include <iostream>
2  #include <stdlib.h>
3
4  using namespace std;
5
6  int main(){
7      int nums [9]; //array that holds 10 integers
8      cout << "Input 10 integers (separated by spaces, then press Enter): ";
9      for(int i = 0; i < 10; i++){
10         cin >> nums[i];
11     }
12
13     for(int j = 1; j < 10; j++){ //bubble sort algorithm
14         for(int k = 0; k < 9; k++){
15             if(nums[k] > nums[k+1]){
16                 int temp;
17                 temp = nums[k];
18                 nums[k] = nums[k+1];
19                 nums[k+1] = temp;
20             }
21         }
22     }
23
24     for(int i = 9; i >+ 0; i--){ //returns the largest integer less than
        100
25         if(nums[i] < 100 && nums[i] > nums[i-1]){
26             cout << "The largest number less than 100 is: " << nums[i] << " ";
27             break;
28         }
29     }
30 }
```

```
31     return 0;
32 }
```

#### Section 6, Problem 14

```
1  int blah(int &a, int b){
2      a++;
3      b++;
4      return a+b;
5  }
6  int main(){
7      int a = 2, b = 5, c;
8      c = blah(a,b);
9      cout << a << endl;
10     cout << b << endl;
11     cout << c << endl;
12     return 0;
13 } //prints out:
14 //3
15 //5
16 //9
```

#### Section 6, Problem 18

```
1  void replaceMax(int a, int b){
2      if(a > b){
3          b = a;
4      } else if (b > a){
5          a = b;
6      }
7  }
```

#### Section 6, Problem 25

```
1  #include <iostream>
2
3  using namespace std;
4
5  int x = 10;
6  int fn(int x){
7
8      int y = 2;
9      x = y;
10
11     return x+y;
12 }
13
14 int main(){
15
16     cout << x << endl;
17     int x = 5, y = 3;
18     y = fn(x);
19     cout << x << y << endl;
20
21     return 0;
```

```

22 }//print out:
23 //10
24 //54

```

## Section 6, Longer Problem 2

```

1 //Resources used: http://stackoverflow.com/questions/16029324/c-splitting-a-string-into-an-array
2
3 #include <iostream>
4 #include <stdlib.h>
5 #include <fstream>
6 #include <iomanip>
7 #include <sstream>
8
9 using namespace std;
10
11 void newWord(string s){
12     if(s == "Hillary" || s == "Donald"){
13         s = "***";
14     }
15     cout << s << " ";
16 }
17
18 int main(){
19
20     string line;
21     int num = 10000;
22     string arr[10000]; //an arbitrarily large array (assuming that the
23         largest sentence is 10000 words)
24     string word;
25
26     ifstream file("news.txt");
27     if(file.is_open() ){
28         while(getline (file, line) ){
29             stringstream ssin(line);
30             for(int i = 0; ssin.good() && i < num; i++){ //splits sentence
31                 into individual words
32                 ssin >> arr[i]; //puts the words in an array, arr
33                 newWord(arr[i]); //turns the word into "***", if it's "Hillary"
34                 or "Donald"
35             }
36         }
37     }
38     return 0;
39 }

```