CSCE 740 - Structural Testing Activity 2
Name(s):

For the following code:

```
void Binary_search (elem key, elem* T, int size, boolean &found, int &L){
        int bott, top, mid;
        bott = 0;
        top = size-1;
        L = (top + bott)/2;

        if(T[L] == key){
              found = true;
        }else{
              found = false;
        }

        while (bott <=top && !found){
              mid = (top + bott) / 2;
              if(T[mid] == key){
                      found = true;
                      L = mid ;
              }
              else{
                      if (T [mid] < key ){
                            bott = mid + 1;
                      }else{
                            top = mid-1;
                      }
              }
        } // while
} //binary_search
```

1. **Draw the control-flow graph.**

2. **What is the cyclomatic complexity of this graph?**

3. **Write a test suite that exercises the loops**
    - **Zero times**
    - **One time**
    - **Two or more times**