**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**