**CSCE 740 - Structural Testing Activity**

**Name(s):**

1. **Draw a control-flow graph for the following program:  
   1. int abs(int A[], int N)  
   2. {  
   3. int i=0;  
   4. while (i< N)  
   5. {  
   6. if (A[i]<0)  
   7. A[i] = - A[i];  
   8. i++;  
   9. }  
   10. return(1);  
   11.}**

1. Write tests that provide statement, branch, and basic condition coverage over the following code:  
     
   **int search(string A[], int N, string what){  
    int index = 0;  
    if ((N == 1) && (A[0] == what)){  
    return 0;   
    } else if (N == 0){  
    return -1;  
    } else if (N > 1){  
    while(index < N){  
    if (A[index] == what){  
    return index;  
    } else  
    index++;**

**}  
}**

**}   
 return -1;  
}**