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.}
```

2. 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;
}
```