Activity: Graph coverage for source code

public static int numberOccurrences(char[] v, char c)
{
    if (v == null)
        throw new NullPointerException();
    int n = 0;
    for (int i=0; i<v.length; i++)
    {
        if (v[i] == c)
            n++;
    }
    return n;
}

Draw a Control Flow Graph for the numberOccurrences method

Apply Node Coverage
Test requirements:

Test paths

Test cases (input values and expected output)
Apply Edge coverage
Test requirements:

Test paths

Test cases (input values and expected output)

Apply Edge-pair
Test requirements:

Test paths

Test cases (input values and expected output)
Apply Prime Path coverage
Test requirements:

Test paths

Test cases (input values and expected output)
**Data Flow coverage**
List all du-pairs, then derive du-paths (the du-paths then can be used as test requirements)

**Apply All-Defs coverage**
Test requirements:

Test paths:
Apply All-Uses coverage
Test requirements:

Test paths:

Apply All-DU-Paths coverage
Test requirements:

Test paths: