# Diagnostic Assist v2.1

```
1- Display Disease Count
2- Symptom Count by Disease
3- Diagnose
0- Exit
What do you want to do: 1

There are 7 diseases in the database.

1- Display Disease Count
2- Symptom Count by Disease
3- Diagnose
0- Exit
What do you want to do: 2

There are 3 symptoms for cold
There are 4 symptoms for flu
There are 5 symptoms for leukemia
There are 2 symptoms for alzheimer
There are 4 symptoms for celiac
There are 2 symptoms for dehydration
There are 1 symptoms for eczema

1- Display Disease Count
2- Symptom Count by Disease
3- Diagnose
0- Exit
What do you want to do: 3

What is your symptom? fatigue
You may have leukemia.
You may have celiac.

1- Display Disease Count
2- Symptom Count by Disease
3- Diagnose
0- Exit
What do you want to do: 3

What is your symptom? fever
You may have flu.
You may have leukemia.

1- Display Disease Count
2- Symptom Count by Disease
3- Diagnose
0- Exit
What do you want to do:
```

Your job is to write a program that would allow us to diagnose diseases based on a given symptom.

**[60] Feature #1: Display # of Diseases**

This will display the number of diseases in the system -- NOT the symptoms!

Notice that diseases are in order in the file -- you can take advantage of this. Go through each disease in the system and whenever you see that the current record's disease name is different than the previous record's disease name, then increment a counter. At the end of the loop, counter will holds the number of diseases in the system, right? ;-)

**[60] Feature 2: # of Symptoms per Disease Report**

This will display how many symptoms are in the system for **each** disease.

**[100] Feature 3: Diagnose**

This will ask user for a symptom and display all diseases that have that symptom.

## Here are the requirements:

● [20] **File I/O:** Make sure to properly read the data from diagnostic.txt at the very beginning of the program.
● [20] **Class:** Make sure to use a class. The class will need 2 fields.
● [20] **Function:** Make sure that each feature is in its own function. Loading the data should also have in its own function.
● [20] **Indentation and Comments:** Make sure that your program is indented and commented properly.

## Penalties:

[-100] if you are using global variables
[-100] if your program does not compile or crashes