For this problem you will read in data from a file that has records for Guide Dogs, for Guide Dogs for the Blind. There is a header on the file, and each row is a record for a different dog. There are 3 fields for each dog; Phase, Dog and Sex.

You are to first read this data into a data structure(s). As practiced in class you can use 3 parallel arrays of the appropriate data type.

After reading in your data create a function to find the count of the number of dogs that are in a certain given phase. Your function header should look something like this:

int phaseCount(char\* phase, char phaseLookingFor)

Then print out a table that shows the count of number of dogs that are in phases 1-9, here is an example of what the table should look like:

Phase count

1 9

2 16

3 5

4 7

5 4

6 4

7 12

8 17

9 0

Next make two functions, the first that returns the percentage of Female dogs, and another function that returns the percentage of male dogs.

Call these 2 functions in main and print out the results.

For the Thinking Question you should print out the counts for all of the phases, including phases that have a letter and not just a number.

Here is some starter code to assist with getting your file data read in:

/\*

\* testCode for the final exam in Fall 2022

this code should start you off with reading from the given

text file called Phases.txt

in repl.it make sure to use the button at the top to

"Upload File", or make a new file with the same name

and copy and paste the data into it.

\*

\* Created on: Dec 13, 2022

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\*/

#include <iostream>

#include <fstream>

using namespace std;

int phaseCount(char\* phase, char phaseLookingFor);

int const SIZE = 120;

int main()

{

//fields from the data file: Phase Dog Sex

char phase[SIZE];

string dog[SIZE];

char sex[SIZE];

ifstream inFile;

string fileName = "Phases.txt";

inFile.open(fileName);

if(!inFile.is\_open())

{

cout<<"error opening the file for input"<<endl;

return -1;

}

//read in header and do nothing with it

string str = "";

getline(inFile, str);

int index = 0;

while(inFile>>phase[index])

{

inFile>>dog[index]>>sex[index];

//cout<<phase[index] << " " << dog[index] << " " << sex[index] <<endl;

index++;

}

inFile.close();

}