**LastNames.java**

import java.util.Scanner;

import java.io.\*;

import java.io.FileNotFoundException;

import java.util.ArrayList;

/\*\*

\* Searches through a file of the most common surnames in the US according to

\* the US Census.

\*

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\*

\*/

public class LastNames {

/\*\*

\* @param args

\*/

public static void main(String[] args) throws FileNotFoundException {

ArrayList<String> surnames = new ArrayList<>();

ArrayList<String> targets = new ArrayList<>();

File fileReader = new File("D:\\EclipseJavaWorspace\\Assignments\\src\\LastNames.txt");

Scanner inputFile = new Scanner(fileReader);

Scanner keyboard = new Scanner(System.in);

int position = 0;

String surname = "";

while (inputFile.hasNext()) {

surname = inputFile.nextLine();

surnames.add(surname);

position++;

}

System.out.println("Enter a surname to see if it is one of the most common in the US, done when finished");

while (!"done".equalsIgnoreCase(surname = keyboard.nextLine()))

targets.add(surname.toUpperCase());

for (position = 0; position < targets.size(); position++) {

if (surnames.indexOf(targets.get(position)) >= 0)

System.out.println(targets.get(position) + " is ranked " + (surnames.indexOf(targets.get(position))+1));

else

System.out.println("Surname " + targets.get(position) + " not found");

}

keyboard.close();

inputFile.close();

}

}

**Input 1**

Enter a surname to see if it is one of the most common in the US, done when finished

Riegle

smith

WILLIAMS

BrOwN

Costa

McLoser

Laptop

done

RIEGLE is ranked 27358

SMITH is ranked 1

WILLIAMS is ranked 3

BROWN is ranked 4

COSTA is ranked 900

Surname MCLOSER not found

Surname LAPTOP not found

**Input 2**

Enter a surname to see if it is one of the most common in the US, done when finished

Riegle

CLARK

JoNeS

JavA

ShOr

PythON

C++

done

RIEGLE is ranked 27358

CLARK is ranked 25

JONES is ranked 5

JAVA is ranked 77072

SHOR is ranked 25669

Surname PYTHON not found

Surname C++ not found