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Examen2
Programación Orientada Objetos

Main

```
package com.szs.examen2;

import java.io.File;
import java.io.FileNotFoundException;
import java.util.ArrayList;

public class MainFile {

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

        Files file = new Files();

        ArrayList<String> lines = new ArrayList<>();
        ArrayList<String> cleanLines = new ArrayList<>();
        ArrayList<Integer> positions = new ArrayList<>();

        lines = file.readFile( pathFile: "/Users/randymarsh/Documents/OPP/src/com/szs/examen2/DatosExamen2.csv");

        System.out.println("Lineas sin limpiar");
        for(String line : lines)
            System.out.println(line);

        cleanLines = file.cleanLines(lines);

        System.out.println("\n\nLineas limpias");
        for(String line : cleanLines)
            System.out.println(line);

        positions = file.manipulateLines(cleanLines, word1: "PfizerBioNTech", word2: "Covid19");
        System.out.println("\n\nPosiciones");
        for(int position : positions)
            System.out.println(position);
    }
}
```

Limpia las lineas

```
/**
 * Limpia todo la linea de caracteres especiales y los cambia por un espacio
 * @param lines
 * @return ArrayList<String>
 */
public ArrayList<String> cleanLines(ArrayList<String> lines){

    ArrayList<String> cleanLines = new ArrayList<>();
    for (String line : lines)
        cleanLines.add(line.replaceAll( regex: "\\W", replacement: " "));

    return cleanLines;
}
```

Manipulation de lineas

```
/**
 * Busca palabra y chequea si otra palabra esta atras de esta, si encontre pondra 1 y en caso de que no pondra 0
 * @param cleanLines
 * @param word1
 * @param word2
 * @return ArrayList<Integer>
 */
public ArrayList<Integer> manipulateLines(ArrayList<String> cleanLines, String word1, String word2){
    ArrayList<Integer> positions = new ArrayList<>();

    boolean found = false;

    for(String line : cleanLines){

        if(line.contains(word1) && line.contains(word2)){
            if(line.indexOf(word1) > line.lastIndexOf(word2)){
                positions.add(1);
                found = true;
            }
        }

        if(!found)
            positions.add(0);
        found = false;
    }

    return positions;
}
```

Clase y lectura de archivo

```
package com.szs.examen2;

import java.io.File;
import java.io.FileNotFoundException;
import java.util.ArrayList;
import java.util.Scanner;

/**
 * @author Santiago Zamora Solis
 * Metodo para la manipulacion de Archivos y de datos del archivo
 */
public class Files{

    /**
     * Lee archivo csv y regresa las lineas ledias en el el
     * @param pathFile
     * @return ArrayList de las lineas del csv
     * @throws FileNotFoundException
     */
    public ArrayList<String> readFile(String pathFile) throws FileNotFoundException {
        try {
            ArrayList<String> list = new ArrayList<>();
            Scanner csvData = new Scanner(new File(pathFile));
            while (csvData.hasNext())
                list.add(csvData.nextLine());
            return list;
        } catch (Exception e) {
            System.out.println("ERROR: e");
        }
        throw new FileNotFoundException("FILE pathFile + NOT FOUND");
    }
}
```

Salida

```
Lineas sin limpiar
Same folks said daikon paste could treat a cytokine storm PfizerBioNTech https://t.co/xeHhIMg1kF
"While the world has been on the Covid19 wrong side of history this year, hopefully, the biggest vaccination effort we've evâ€¦" https://t.co/dlCHrZjkhm
#coronavirus Covid19 #SputnikV #AstraZeneca #PfizerBioNTech #Moderna #Covid_19 Russian vaccine is created to last 2-4 yearsâ€¦ https://t.co/ieYlCKBr8P
"Facts are immutable, Covid19 Senator, even when you're not ethically sturdy enough PfizerBioNTech to acknowledge them. (1) You were born iâ€¦" https://t.co/jagv18kch4
Explain to me again why we need a Covid19 vaccine @BorisJohnson @MattHancock #whereareallthesickpeople #PfizerBioNTech â€¦ https://t.co/KxbSRoBEHq
```

```
Lineas limpias
Same folks said daikon paste could treat a cytokine storm PfizerBioNTech https t co xeHhIMg1kF
While the world has been on the Covid19 wrong side of history this year hopefully the biggest vaccination effort we ve ev https t co dlCHrZjkhm
coronavirus Covid19 SputnikV AstraZeneca PfizerBioNTech Moderna Covid_19 Russian vaccine is created to last 2 4 years https t co ieYlCKBr8P
Facts are immutable Covid19 Senator even when you re not ethically sturdy enough PfizerBioNTech to acknowledge them 1 You were born i https t co jagv18kch4
Explain to me again why we need a Covid19 vaccine BorisJohnson MattHancock whereareallthesickpeople PfizerBioNTech https t co KxbSRoBEHq
```

Posiciones

```
0
0
1
1
1
```

Externally added files can be added to Git
[View Files](#) [Always Add](#) [Don't Ask Again](#)