```
Script started on 2021-10-02 20:14:08-05:00 [TERM="xterm" TTY="/dev/pts/6" COLUMNS=
k_gandhi6@ares:~$ cat RainingStrings.info
Name: Kush Gandhi

Course: CSC122-001

Levels: 2

Title: It's Raining Strings! (Lab)

Description: Takes input of Busines names and outputs

them as the prgram continous.

k_gandhi6@ares:~$ cat RainingStrings.h
#ifndef RAINING_STRINGS_H_INC

#define RAINING_STRINGS_H_INC

#include <iostream>

#include <vector>

#include <string>

using namespace std;


void sortBusiness(vector<string>& bizz) {

    string n;

    for (unsigned int i = 1; i < bizz.size(); i++) {

        for (unsigned int j = 0; j < bizz.size() - 1; j++) {

            if (bizz[j] > bizz[i]) {

                n = bizz[j];

                bizz[j] = bizz[i];

                bizz[i] = n;

            }

        }

    }

}


void displayList(vector<string>& bizz) {

    for (unsigned int i = 0; i != bizz.size(); i++) {

        cout << bizz[i] << "\n";

    }

}


void names(vector<string>& names) {

    if (names.size() == 1) {

        cout << "\nYour business is: \n\n";

    }

    else {

        cout << "\nYour businesses are: \n\n";

    }

}

#endif

k_gandhi6@ares:~$ cat RainingStrings.cpp
#include <iostream>

#include <string>

#include <vector>

#include <cctype>

#include "RainingStrings.h"

using namespace std;


vector<string>::size_type bizz;

vector<string> businessName;
```

```
int main() {


    string bizzName;

    char ans = 'y';


    cout << "\t\tWelcome to the Business sorting program\n\n";


    do {

        cout << "\nPlease enter the name of a business: ";

        getline(cin, bizzName);

        businessName.push_back(bizzName);

        sortBusiness(businessName);

        names(businessName);

        displayList(businessName);

        cout << "\nWould you like to enter another one? (y/n) ";

        cin >> ans;

        while (ans == 'N' || ans == 'n') {

            cout << "\nThanks for using my sorting program!!\n";

            return 0;

        }

        cin.ignore();

    } while (ans == 'y' || ans == 'Y');

}
```

```
k_gandhi6@ares:~$ CPP RainingStrings
RainingStrings.cpp***


k_gandhi6@ares:~$ ./RainingStrings.out
                Welcome to the Business sorting program
```

```
Please enter the name of a business: Walmart

Your business is:

Walmart

Would you like to enter another one? (y/n) Y

Please enter the name of a business: Best Buy

Your businesses are:

Best Buy
Walmart

Would you like to enter another one? (y/n) y

Please enter the name of a business: Apple

Your businesses are:

Apple
Best Buy
Walmart

Would you like to enter another one? (y/n) n

Thanks for using my sorting program!!
k_gandhi6@ares:~$ cat RainingStrings.tpq
1. How do you read names that might or might not contain spaces?

    I basically used a simple function called the getline(). This

    helps read the user input to count as a place holder in the string.


2. How do you store multiple (C)strings together in a single variable?

    By simply using a vector to store all of the information.


3. How do you sort (C)strings? (Hint: Most books/sites discuss sorting with

respect to numbers. What might you need to modify for sorting (C)strings?)

    I used a Bubble sort to sort the vectors.


4. How can you access a single row of a 2D array?

    To access a single row, you would use the first bracket.
```

```
    for example, array[row][column] the first one is for row and the
    second is for column.


5. Can you pass a single (C)string from an array to, say, strcmp?
    No, you can't compare a single Cstring because the function needs to
    read 2 strings to compare.


6. How can your 'again' question accept either characters or words?
   How can it be case insensitive?
    I used a do while loop to validate the user response. For example, the user
    ia able to enter Y or y to continue the program.

k_gandhi6@ares:~$ exit
exit

Script done on 2021-10-02 20:22:34-05:00 [COMMAND_EXIT_CODE="0"]
```