Q13. Declare an Array of type char\* (Strings) and initialize it with a few strings (hard coded). Display the strings which are duplicated in that array. (Hint: use strcmp()).

#include <stdio.h>

#include <string.h>

int main() {

// Initialize an array of strings

char \*strArray[] = {

"apple",

"banana",

"orange",

"apple",

"grape",

"banana",

"kiwi",

"apple",

"kiwi"

};

int n = sizeof(strArray) / sizeof(strArray[0]); // Number of strings in the array

int i, j;

int duplicateFound;

printf("Duplicate strings in the array are:\n");

// Iterate through the array and check for duplicates

for (i = 0; i < n; i++) {

duplicateFound = 0;

// Check if the string has already been printed as a duplicate

for (j = 0; j < i; j++) {

if (strcmp(strArray[i], strArray[j]) == 0) {

duplicateFound = 1;

break;

}

}

// If it's the first time this string is found to be a duplicate, print it

if (!duplicateFound) {

for (j = i + 1; j < n; j++) {

if (strcmp(strArray[i], strArray[j]) == 0) {

printf("%s\n", strArray[i]);

break;

}

}

}

}

return 0;

}