#include <stdio.h>

#include <string.h>

int main() {

char str[100];

int i, j, len, freq = 0, repeated = 0;

printf("Enter a string: ");

fgets(str, sizeof(str), stdin);

len = strlen(str) - 1; // remove the newline character

printf("Length of the string is: %d\n", len);

// calculate word frequency

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

int flag = 0;

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

if (str[i] == str[j]) {

flag = 1;

break;

}

}

if (!flag) {

freq++;

}

}

printf("Word frequency is: %d\n", freq);

// find first repeated character

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

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

if (str[i] == str[j]) {

printf("First repeated character is: %c\n", str[i]);

repeated = 1;

break;

}

}

if (repeated) {

break;

}

}

if (!repeated) {

printf("No repeated characters found in the string.\n");

}

// find first non-repeated character

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

int flag = 0;

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

if (i != j && str[i] == str[j]) {

flag = 1;

break;

}

}

if (!flag) {

printf("First non-repeated character is: %c\n", str[i]);

break;

}

}

return 0;

}

