

C:\Users\91961\Documents\non repeated string 25.cpp - [Executing] - Embarcadero Dev-C++ 6.3

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TDM-GCC 9.2.0 32-bit Profiling

(globals) replace all 25.cpp | concatenating two string 25.cpp | frequency using string 25.cpp | palindrom in a string 25.cpp | [\*] vowels in string 25.cpp | non repeated string 25.cpp

```

4 #define NO_OF_CHARS 256
5
6 int *get_char_count(char *str)
7 {
8     int *count = (int *)calloc(sizeof(int), NO_OF_CHARS);
9     int i;
10    for (i = 0; *(str+i); i++)
11        count[*(str+i)]++;
12    return count;
13 }
14
15 int first_non_repeating_character(char *str)
16 {
17     int *count = get_char_count(str);
18     int index = -1, i;
19
20     for (i = 0; *(str+i); i++)
21     {
22         if (count[*(str+i)] == 1)
23         {
24             index = i;
25             break;
26         }
27     }
28
29     free(count);
30     return index;
31 }
32
33 int main()
34 {
35     char str[NO_OF_CHARS];
36     printf("\nEnter the string : ");
37     scanf("%s", str);
38     int index = first_non_repeating_character(str);
39     if (index == -1)
40         printf("All the characters are repetitive");
41     else
42         printf("First non-repeating character is %c", str[index]);
43     getch();
44     return 0;
45 }

```

C:\Users\91961\Documents\non repeated string 25.cpp

Enter the string : madam  
First non-repeating character is d

Process exited after 45.89 seconds with return value 0  
Press any key to continue . . .

The image shows a Windows desktop environment. In the foreground, there is a terminal window titled 'C:\Users\9196\Documents\palindrom' with the following output:

```
enter the string:MS DHONI
is not palindrom
-----
Process exited after 35.33 seconds with return value 0
Press any key to continue . . .
```

Below the terminal window, a code editor window titled 'TDM-GCC 9.2.0 32-bit Profiling' displays the following C++ code:

```
1 #include<stdio.h>
2 #include<string.h>
3 int main()
4 {
5     char s[100];
6     int i,n,c=0;
7     printf("enter the string:");
8     gets(s);
9     n=strlen(s);
10    for(i=0;i<n/2;i++)
11    {
12        if(s[i]==s[n-i-1])
13            c++;
14    }
15    if(c==i)
16        printf(" is palindrom");
17    public int __cdecl printf (const char * __restrict__ __Format, ...)
18    {
19        printf(" is not palindrom");
20    }
21 }
22 return 0;
23 }
```

C:\Users\91961\Documents\frequency using string 25.cpp - [Executing] - Embarcadero Dev-C++ 6.3

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TDM-GCC 9.2.0 32-bit Profiling

(globals)

Project Clas > replace all 25.cpp | concatenating two string 25.cpp | frequency using string 25.cpp

```
1 #include<stdio.h>
2 #include<string.h>
3 int main()
4 {
5     char string[100];
6     int c=0, count[30]={0}, x;
7     printf("enter the string:\n");
8     gets(string);
9     while(string[c]!='\0'){
10         if(string[c]>='a'&&string[c]<='z'){
11             x=string[c]-'a';
12             count[x]++;
13         }
14         c++;
15     }
16     for(c=0;c<30;c++)
17     printf("%c occurs %d times in the string:\n",c+'a',count[c]);
18     return 0;
19 }
```

enter the string:  
BELIEVE YOU CAN AND YOU'RE HALFWAY THERE  
a occurs 0 times in the string:  
b occurs 0 times in the string:  
c occurs 0 times in the string:  
d occurs 0 times in the string:  
e occurs 0 times in the string:  
f occurs 0 times in the string:  
g occurs 0 times in the string:  
h occurs 0 times in the string:  
i occurs 0 times in the string:  
j occurs 0 times in the string:  
k occurs 0 times in the string:  
l occurs 0 times in the string:  
m occurs 0 times in the string:  
n occurs 0 times in the string:  
o occurs 0 times in the string:  
p occurs 0 times in the string:  
q occurs 0 times in the string:  
r occurs 0 times in the string:  
s occurs 0 times in the string:  
t occurs 0 times in the string:  
u occurs 0 times in the string:  
v occurs 0 times in the string:  
w occurs 0 times in the string:  
x occurs 0 times in the string:  
y occurs 0 times in the string:  
z occurs 0 times in the string:  
{ occurs 0 times in the string:  
| occurs 0 times in the string:



(globals) replace all 25.cpp × concenenting two string 25.cpp ×

```
1 #include<stdio.h>
2 #include<string.h>
3 int main()
4 {
5     char destination[]="MS";
6     char source[]="dhoni";
7     printf("concatenated string:%s\n",strcat(destination,source));
8     return 0;
9 }
```

```
C:\Users\91961\Documents\cc × + ▾
concatenated string:MSdhoni
-----
Process exited after 0.05094 seconds with return value 0
Press any key to continue . . .
```

A screenshot of a Windows desktop environment. In the foreground, there is a terminal window titled 'C:\Users\91961\Documents\re' with a black background and white text. It displays the output of a C program: 'length of the string: 31' followed by a dashed line, 'Process exited after 0.04992 seconds with return value 0', and the instruction 'Press any-key to continue . . .' In the background, there is a code editor window titled 'replace all 25.cpp' showing the following C code:

```
1 #include<stdio.h>
2 #include<string.h>
3 int main()
4 {
5     char s[]={ "saveetha school of engineering"};
6     int i;
7     for(i=0;s[i]!='\0';++i);
8     printf("length of the string: %d",i);
9     return 0;
10 }
```