

DEPARTMENT : INFORMATION SCIENCE AND
ENGINEERING

STUDENT NAME : R. G. MANYITHA

STUDENT USN : 1RN19IS111

SEM : III

SEC : B

DATE : 23/09/2020

TIME : 9.00 AM - 11.25 AM

COURSE NAME : DATA STRUCTURES LABORATORY

WITH

CODE : 18CSL38

SIGNATURE : R.G. Manyitha.

Lab 2 : Design, Develop and Implement a Program in C for the following operations on strings.

a> Read a main string (STR), a pattern string and replace string (REP).

b> Perform Pattern Matching operation: Find and replace all occurrences of PAT in STR with REP if PAT exists in STR. Report suitable messages in case PAT doesn't exist in STR.

Support the program with functions for each of the above operations. Don't use built-in functions.

```
#include <stdio.h>
```

```
char s[100], p[100], r[100], a[100];  
void read()
```

```
{
```

```
printf("Enter a string: \n")  
gets(s);
```

```
printf("\nEnter pattern string: \n")  
gets(p);
```

```
printf("\nEnter replacement string: \n");  
gets(r);  
}
```

```
void pat()
```

```
{
```

```
int i, j, m, k, c;
```

```
int flag = 0;
```



```
a[j] = '10';
```

```
if (flag == 0)
```

```
    printf("In Pattern: %s is not  
found in string: %s", p, s);  
else
```

```
    printf("In Resulting string = %s", a);  
}
```

```
void main()
```

```
{
```

```
    read();
```

```
    pat();
```

```
    getch();
```

```
}
```

OUTPUT 1: enter the string : good morning
enter the pattern string : good
enter the replacement string : happy
p: good is found at position 1
resulting string = happy morning

OUTPUT 2: enter the string : 2 3 4 5
enter the pattern string : 5
enter the replacement string : 90
p: 5 is found at position 7
resulting string = 2 3 4 90

Output 3: enter the string: have a nice day

enter the pattern string: hi

enter the replacement string: amazing

pattern: hi is not found in string: have a nice day.


```
38 printf ("\n p : %s is found at position %d", p, c + 1);
39 for (k = 0; r[k] != '\0'; k++, j++)
40 r[j] = r[k];
```

input

```
main.c:18:3: warning: 'gets' is deprecated [-Wdeprecated-declarations]
/usr/include/stdio.h:638:14: note: declared here
main.c:20:3: warning: 'gets' is deprecated [-Wdeprecated-declarations]
/usr/include/stdio.h:638:14: note: declared here
main.c:22:3: warning: 'gets' is deprecated [-Wdeprecated-declarations]
/usr/include/stdio.h:638:14: note: declared here
main.c:67:3: warning: implicit declaration of function 'getch' [-Wimplicit-function-declaration]
main.c:(.text+0x19): warning: the 'gets' function is dangerous and should not be used.
< enter the string: good morning

enter the patter string: good

enter the replacement string: happy

p : good is found at position 1
resulting string = happy morning

...Program finished with exit code 255
Press ENTER to exit console.
```

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```

34     i++;
35     m++;
36     if (p[i] == '\0')
37     {
38         printf ("\n p : %s is found at position %d", p, c + 1);
39         for (k = 0; r[k] != '\0'; k++, j++)
40             r[j] = r[k];

```

main.c:18:3: warning: 'gets' is deprecated [-Wdeprecated-declarations] input
/usr/include/stdio.h:638:14: note: declared here
main.c:20:3: warning: 'gets' is deprecated [-Wdeprecated-declarations]
/usr/include/stdio.h:638:14: note: declared here
main.c:22:3: warning: 'gets' is deprecated [-Wdeprecated-declarations]
/usr/include/stdio.h:638:14: note: declared here
main.c:67:3: warning: implicit declaration of function 'getch' [-Wimplicit-function-declaration]
main.c:(.text+0x19): warning: the 'gets' function is dangerous and should not be used.

enter the string: 2 3 4 5

I

enter the patter string: 5

enter the replacement string: 90

p : 5 is found at position 7

resulting string = 2 3 4 90

...Program finished with exit code 255

Press ENTER to exit console.

input

```
/usr/include/stdio.h:638:14: note: declared here
main.c:28:3: warning: 'gets' is deprecated [-Wdeprecated-declarations]
/usr/include/stdio.h:638:14: note: declared here
main.c:30:3: warning: 'gets' is deprecated [-Wdeprecated-declarations]
/usr/include/stdio.h:638:14: note: declared here
main.c:75:3: warning: implicit declaration of function 'getch' [-Wimplicit-function-declaration]
main.c:(.text+0x19): warning: the 'gets' function is dangerous and should not be used.
enter the string: have a nice day

enter the patter string: hi

enter the replacement string: amazing

patter :hi is not found in string :have a nice day

...Program finished with exit code 255
Press ENTER to exit console.
```