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```
1)Write functions to
1
    a) Reverse a string.
    b) Check for equality of strings.
    Program:
     1 v #include <stdio.h>
          #include <string.h>
          void palin(char*);
     6 vint main()
               char s[100];
               printf("Enter a string: ");
               scanf("%s",s);
    10
               palin(s);
    12
               return 0;
    13
```



```
void palin(char s[100])
          int length = strlen(s);
         int j = length - 1;
         char rev[100];
         for (int i = 0; i < length; i++)</pre>
21
              rev[i] = s[j];
             j--;
         printf("Reversed string: %s\n",rev);
         int check=1;
         for(int i=0;i<length;i++)</pre>
              if(s[i]!=rev[i])
                  printf("String is not a palindrome");
                  check=0;
                  break;
         if(check==1)
              printf("String is a palindrome");
```

```
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W5>a
Enter a string: abcba
Reversed string: abcba
String is a palindrome
```



Write function to find all occurrences of a character in a string and use this function to replace all occurences of a character by specific character.

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Program:
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```
#include <stdio.h>
     #include <string.h>
     void replace(char*,char,char);
     int main()
         char s[100];
         char ch1,ch2;
         printf("Enter a string: ");
         scanf("%s",s);
         printf("Enter a characters: ");
         scanf("%c",&ch1);
         scanf("%c %c",&ch1,&ch2);
         replace(s,ch1,ch2);
         return 0;
     void replace(char* s, char ch, char r)
         int length = strlen(s);
         char rep[100];
         for (int i = 0; i < length; i++)</pre>
             if(s[i]!=ch)
                 rep[i] = s[i];
26
                 rep[i]=r;
         }
29
         printf("%s",rep);
```

```
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W5>gcc P2.c
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W5>a
Enter a string: abcde
Enter a characters: d r
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W5>
```



Write a function to remove all repeated characters from a given string and display the string without duplicate characters.

```
Program:
      #include <stdio.h>
      #include <string.h>
      void rem(char*);
      int main()
           char s[100];
           char ch1,ch2;
           printf("Enter a string: ");
           scanf("%s",s);
 11
           rem(s);
 12
           return 0;
 13
 14
 15
```



```
void rem(char* s)
         int length = strlen(s);
         char rep[100];
         rep[0]=s[0];
         int count=1;
         for (int i = 1; i < length; i++)</pre>
              for (int j = 0; j < i; j++)
25
                  if(s[i]==s[j])
                      break;
                  else if(j==(i-1))
                      rep[count]=s[i];
                      count+=1;
         printf("%s",rep);
39
```

```
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W5>gcc P3.c
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W5>a
Enter a string: programming
progamin
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W5>
```



4 Write function to Concatenate two strings and use this to concatenate n (i.e, say 2) strings.

Program:

```
#include <stdio.h>
#include <string.h>
void concat(char*,char*,int);
int main()
    char s[100],s2[100];
    int n;
    printf("Enter a string: ");
    scanf("%s",s);
    printf("Enter a string: ");
    scanf("%s",s2);
    printf("Enter n: ");
    scanf("%d",&n);
    concat(s,s2,n);
    return 0;
```



```
void concat(char* s, char* s2, int n)
         int length = strlen(s2);
         char result[1000];
         int count=0;
         for (int i = 0; i < strlen(s); i++)
              result[count]=s[i];
              count+=1;
         for (int i = 0; i < n; i++)
             for (int j = 0; j < length; j++)
                 result[count]=s2[j];
34
                 count+=1;
         printf("%s",result);
```

```
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W5>gcc P4.c
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W5>a
Enter a string: hello
Enter a string: world
Enter n: 3
helloworldworldworld
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W5>
```