

main.c

Run

Output

Clear

```
1 #include <stdio.h>
2 int checkPrimeNumber(int n);
3 int main() {
4
5     int n1, n2, i, flag;
6
7     printf("Enter two positive integers: ");
8     scanf("%d %d", &n1, &n2);
9
10    // swap n1 and n2 if n1 > n2
11    if (n1 > n2) {
12        n1 = n1 + n2;
13        n2 = n1 - n2;
14        n1 = n1 - n2;
15    }
16
17    printf("Prime numbers between %d and %d are: ", n1, n2);
18    for (i = n1 + 1; i < n2; ++i) {
19
20        // flag will be equal to 1 if i is prime
21        flag = checkPrimeNumber(i);
22
23        if (flag == 1) {
24            printf("%d ", i);
25        }
```

/tmp/H5IfhS21TV.o
Enter two positive integers: 12 30
Prime numbers between 12 and 30 are: 13 17 19 23 29

```
Output
/tmp/mw02ec7edC.o
Enter a positive integer: 34
34 = 3 + 31
34 = 5 + 29
34 = 11 + 23
34 = 17 + 17
```

main.c

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Run

```
1 #include <stdio.h>
2 int hcf(int n1, int n2);
3 int main() {
4     int n1, n2;
5     printf("Enter two positive integers: ");
6     scanf("%d %d", &n1, &n2);
7     printf("G.C.D of %d and %d is %d.", n1, n2, hcf(n1, n2));
8     return 0;
9 }
10
11 int hcf(int n1, int n2) {
12     if (n2 != 0)
13         return hcf(n2, n1 % n2);
14     else
15         return n1;
16 }
17
```

Output

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```
/tmp/4qaW8x1Nyh.o
Enter two positive integers: 4 9
G.C.D of 4 and 9 is 1.
```

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```
main.c
1 #include <stdio.h>
2 #include <string.h>
3
4 char string1[100], visited[100];
5 int count[100] = {0}, flag = 0;
6
7 void main()
8 {
9     int i, j = 0, k = 0, l, max, index;
10
11     printf("Enter a string : ");
12     scanf("%s", string1);
13
14     l = strlen(string1);
15
16     for (i = 0; i < l; i++)
17     {
18         if (i == 0)
19         {
20             visited[j++] = string1[i];
21             count[j - 1]++;
22         }
23         else
24         {
25             for (k = 0; k < j; k++)
```

Output

```
/tmp/4qaW8x1NyH.o
Enter a string : Welcome Two Sanfoundry's C Programming Class!
Max repeated character in the string = o
It occurs 4 times
```

Clear

Run

Output

Clear

```

34+     {
35         visited[j++] = string1[i];
36         count[j - 1]++;
37     }
38     flag = 0;
39 }
40 }
41
42 for (i = 0; i < j; i++)
43 {
44     if ((i == 0) && (visited[i] != ' '))
45     {
46         max = count[i];
47         continue;
48     }
49     if ((max < count[i]) && (visited[i] != ' '))
50     {
51         max = count[i];
52         index = i;
53     }
54 }
55
56 printf("\nMax repeated character in the string = %c ", visited[index]);
57 printf("\nIt occurs %d times", count[index]);
58 }

```

```
/tmp/4qaw8x1NyH.o
Enter a string : Welcome Two Sanfoundry's C Programming Class!
Max repeated character in the string = o
It occurs 4 times
```

```
main.c
1 #include <stdio.h>
2
3 int find_anagram(char [], char []);
4
5 int main()
6 {
7     char array1[100], array2[100];
8     int flag;
9
10    printf("Enter the string\n");
11    gets(array1);
12    printf("Enter another string\n");
13    gets(array2);
14    flag = find_anagram(array1, array2);
15    if (flag == 1)
16        printf("%s and %s are anagrams.\n", array1, array2);
17    else
18        printf(" %s and %s are not anagrams.\n", array1, array2);
19    return 0;
20 }
21
22 int find_anagram(char array1[], char array2[])
23 {
24     int num1[26] = {0}, num2[26] = {0}, i = 0;
25     while (array1[i] != '\0')
```

Output

```
/tmp/.J0mLpdXo9z.o
Enter the string
hectare
Enter another string
teacher
hectare and teacher are anagrams.
```

Clear

```
main.c
18     printf("%s and %s are not anagrams.\n", array1, array2);
19     return 0;
20 }
21
22 int find_anagram(char array1[], char array2[])
23 {
24     int num1[26] = {0}, num2[26] = {0}, i = 0;
25     while (array1[i] != '\0')
26     {
27         num1[array1[i] - 'a']++;
28         i++;
29     }
30     i = 0;
31     while (array2[i] != '\0')
32     {
33         num2[array2[i] - 'a']++;
34         i++;
35     }
36     for (i = 0; i < 26; i++)
37     {
38         if (num1[i] != num2[i])
39             return 0;
40     }
41     return 1;
42 }
```

Run

Output

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```
/tmp/J0mLpdXo9z.o
Enter the string
hectare
Enter another string
teacher
hectare and teacher are anagrams.
```


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main.c

Run

```
1 // Online C compiler to run C program online
2 #include <stdio.h>
3 #include <string.h>
4
5 void main()
6 {
7     int sum = 0, i, len;
8     char string1[100];
9
10    printf("Enter the string : ");
11    scanf("%s", string1);
12    len = strlen(string1);
13    for (i = 0; i < len; i++)
14    {
15        sum = sum + string1[i];
16    }
17    printf("\nSum of all characters : %d",sum);
18 }
```

Output

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```
/tmp/bhXS2dZzz.o
Enter the string : Welcome to Sanfoundry's C Programming Class, Welcome Again to C
Class !
Sum of all characters : 6307
```

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main.c

```
1 #include <stdio.h>
2
3 #define MAX_SIZE 100 // Maximum array size
4
5
6 /* Function declaration to print array */
7 void printArray(int arr[], int size);
8
9
10 int main()
11 {
12     int source_arr[MAX_SIZE], dest_arr[MAX_SIZE];
13     int size, i;
14
15     int *source_ptr = source_arr; // Pointer to source_arr
16     int *dest_ptr = dest_arr; // Pointer to dest_arr
17
18     int *end_ptr;
19
20
21     /*
22      * Input size and elements in source array
23      */
24     printf("Enter size of array: ");
25     scanf("%d", &size);
```

Run

Output

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```
/tmp/5ZgPewTyMA.o
Enter size of array: 10
Enter elements in array: 10 -1 100 90 87 0 15 10 20 30
Source array before copying: 10, -1, 100, 90, 87, 0, 15, 10, 20, 30,
Destination array before copying: 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
Source array after copying: 10, -1, 100, 90, 87, 0, 15, 10, 20, 30,
Destination array after copying: 10, -1, 100, 90, 87, 0, 15, 10, 20, 30,
```

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main.c

56 dest_ptr++;

57 }

58

59

60 /* Print source and destination array after copying */

61 printf("\n\nSource array after copying: ");

62 printArray(source_arr, size);

63

64 printf("\nDestination array after copying: ");

65 printArray(dest_arr, size);

66

67

68 return 0;

69 }

70

71 void printArray(int *arr, int size)

72 {

73 int i;

74

75 for (i = 0; i < size; i++)

76 {

77 printf("%d, ", *(arr + i));

78 }

79 }

80

Run

Output

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/tmp/5ZgPewTyMA.o

Enter size of array: 10

Enter elements in array: 10 -1 100 90 87 0 15 10 20 30

Source array before copying: 10, -1, 100, 90, 87, 0, 15, 10, 20, 30,

Destination array before copying: 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,

Source array after copying: 10, -1, 100, 90, 87, 0, 15, 10, 20, 30,

Destination array after copying: 10, -1, 100, 90, 87, 0, 15, 10, 20, 30,

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```
1 // C program to print all permutations with duplicates
2 // allowed
3 #include <stdio.h>
4 #include <string.h>
5
6 /* Function to swap values at two pointers */
7 void swap(char* x, char* y)
8 {
9     char temp;
10    temp = *x;
11    *x = *y;
12    *y = temp;
13 }
14
15 /* Function to print permutations of string
16 This function takes three parameters:
17 1. String
18 2. Starting index of the string
19 3. Ending index of the string. */
20 void permute(char* a, int l, int r)
21 {
22     int i;
23     if (l == r)
24         printf("%s\n", a);
25     else {
```

```
/tmp/HH9WEq80dK.o
SAN
SNA
ASN
ANS
NAS
NSA
```

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IN

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main.c

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```
18 2. Starting index of the string
19 3. Ending index of the string. */
20 void permute(char* a, int l, int r)
21 {
22     int i;
23     if (l == r)
24         printf("%s\n", a);
25     else {
26         for (i = l; i <= r; i++) {
27             swap((a + l), (a + i));
28             permute(a, l + 1, r);
29             swap((a + l), (a + i)); // backtrack
30         }
31     }
32 }
33
34 /* Driver code */
35 int main()
36 {
37     char str[] = "SAN";
38     int n = strlen(str);
39     permute(str, 0, n - 1);
40     return 0;
41 }
42
```

```
/tmp/HH9WEq80dK.o
SAN
SNA
ASN
ANS
NAS
NSA
```

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```
main.c
1 #include <stdio.h>
2 #include <string.h>
3
4 // Function to reverse the string
5 // using pointers
6 void reverseString(char* str)
7 {
8     int l, i;
9     char *begin_ptr, *end_ptr, ch;
10
11     // Get the length of the string
12     l = strlen(str);
13
14     // Setting the begin_ptr
15     // to start of string
16     begin_ptr = str;
17
18     //Setting the end_ptr the end of
19     //the string
20     end_ptr = str + l - 1;
21
22     // Swap the char from start and end
23     // index using begin_ptr and end_ptr
24     for (i = 0; i < (l - 1) / 2; i++) {
25
```

Output

```
/tmp/kHR21dpbRT.o
Enter a string: Saveetha
Reverse of the string: ahteevaS
```

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