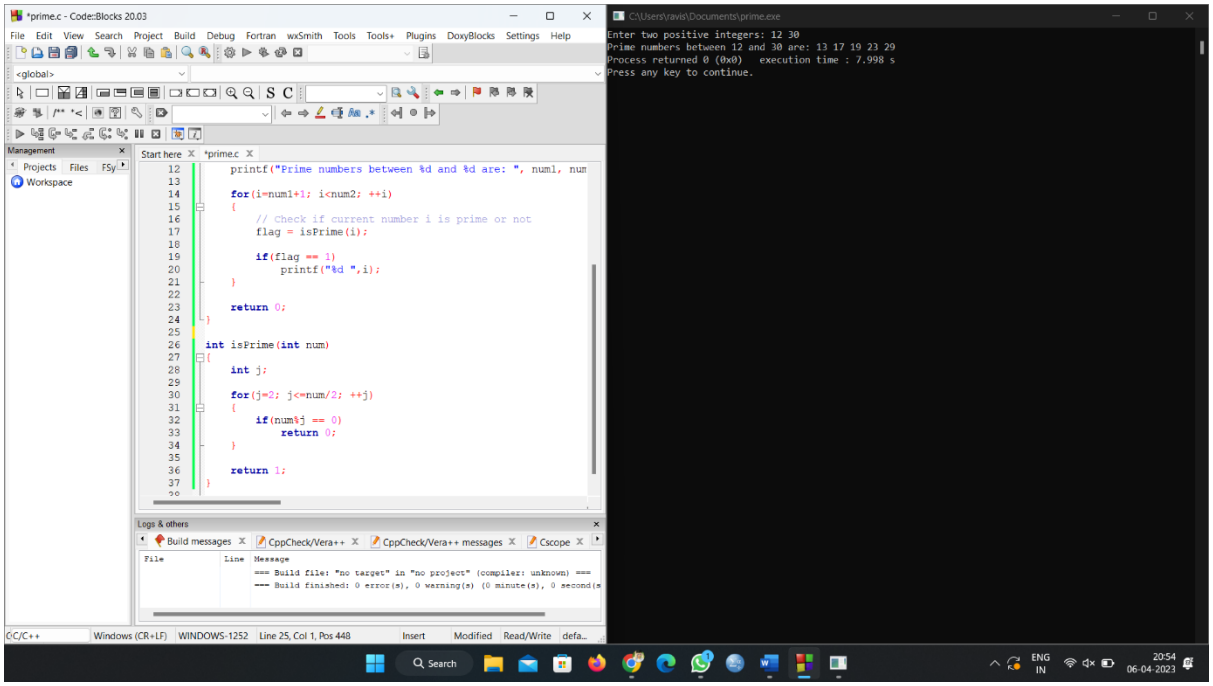
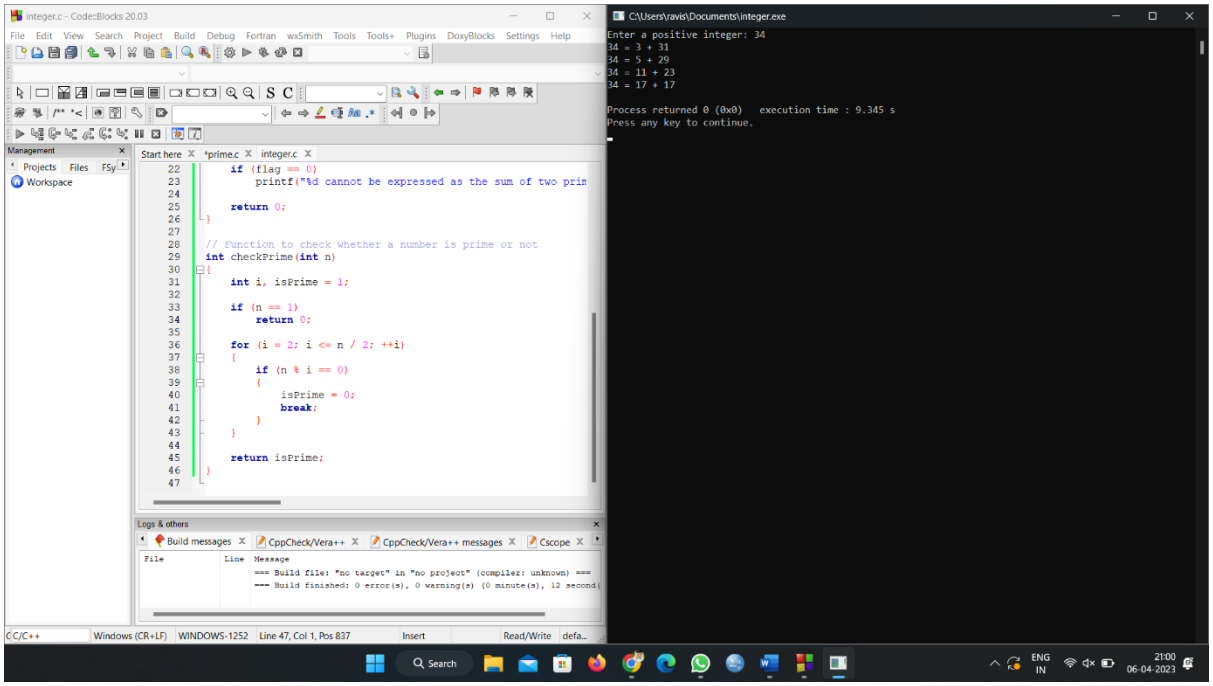
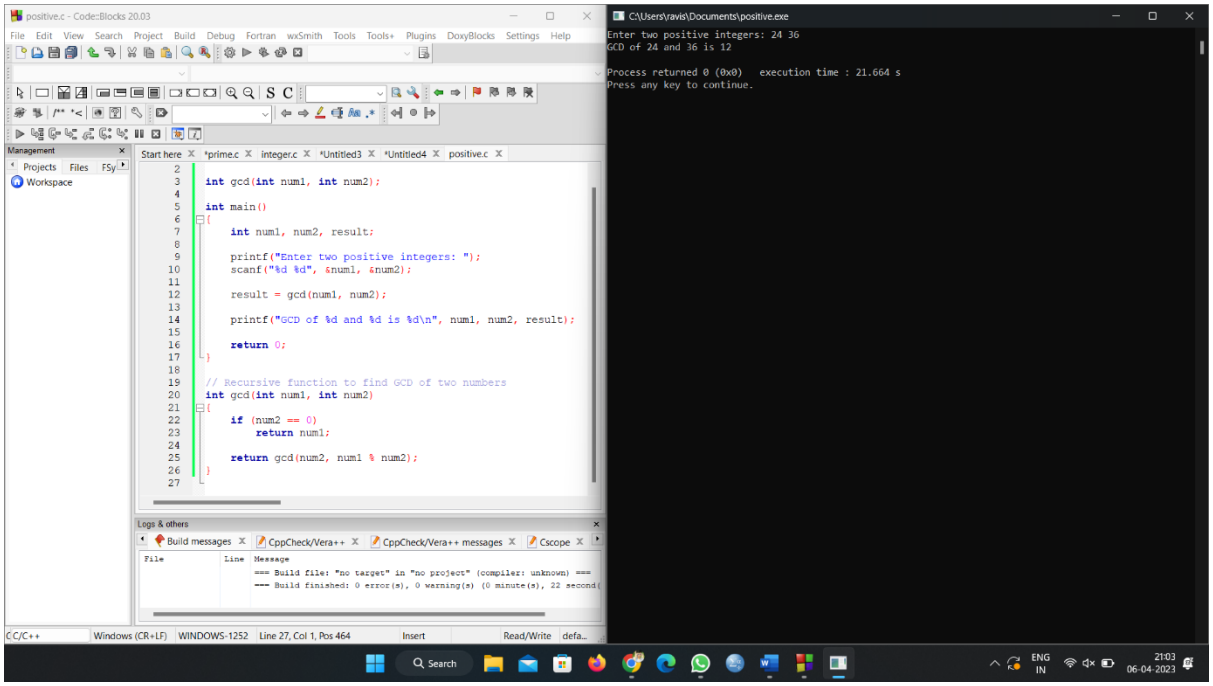
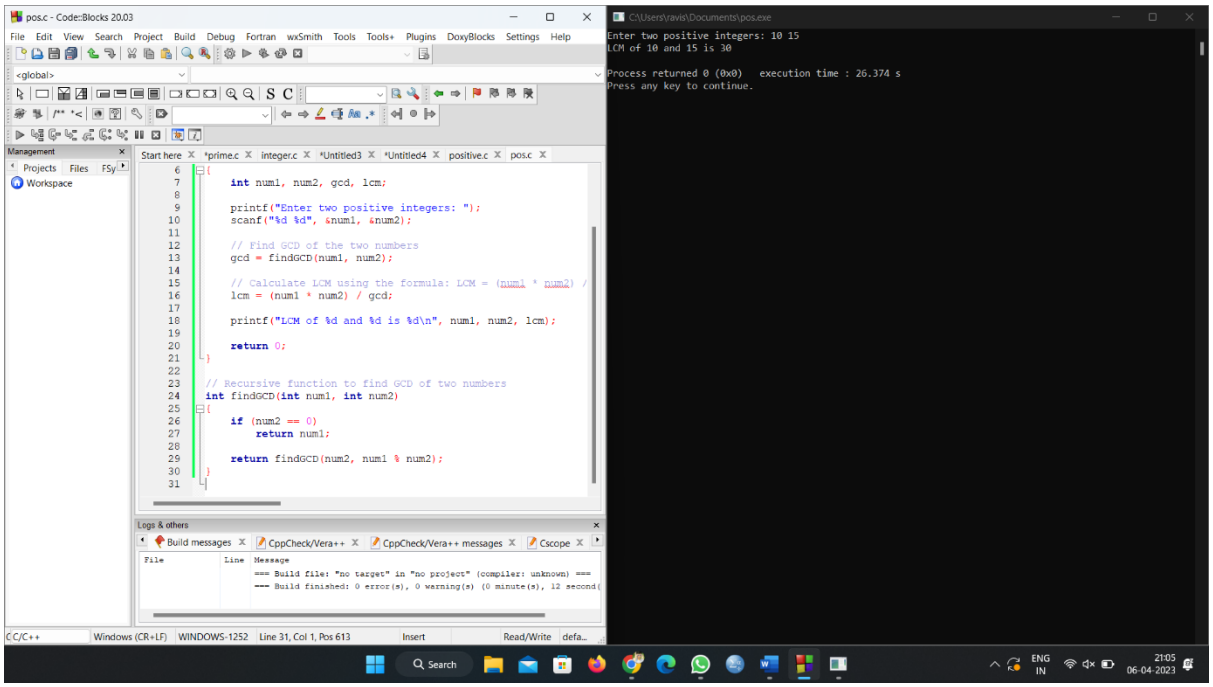
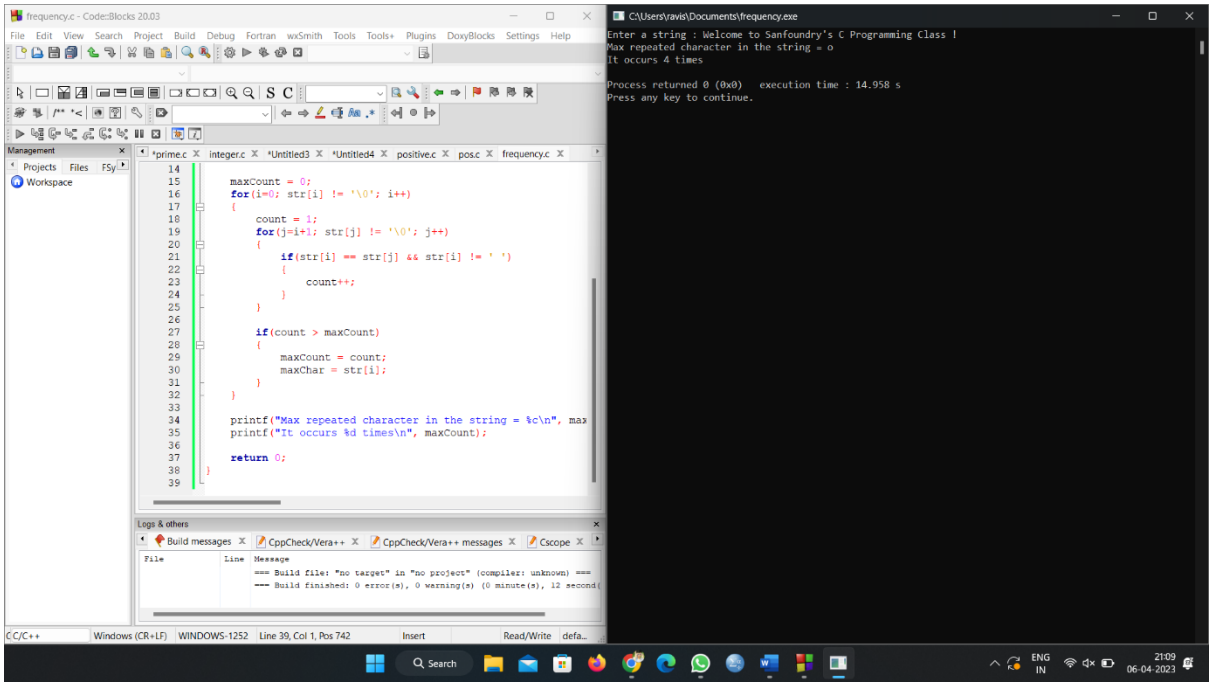
Assignment-3

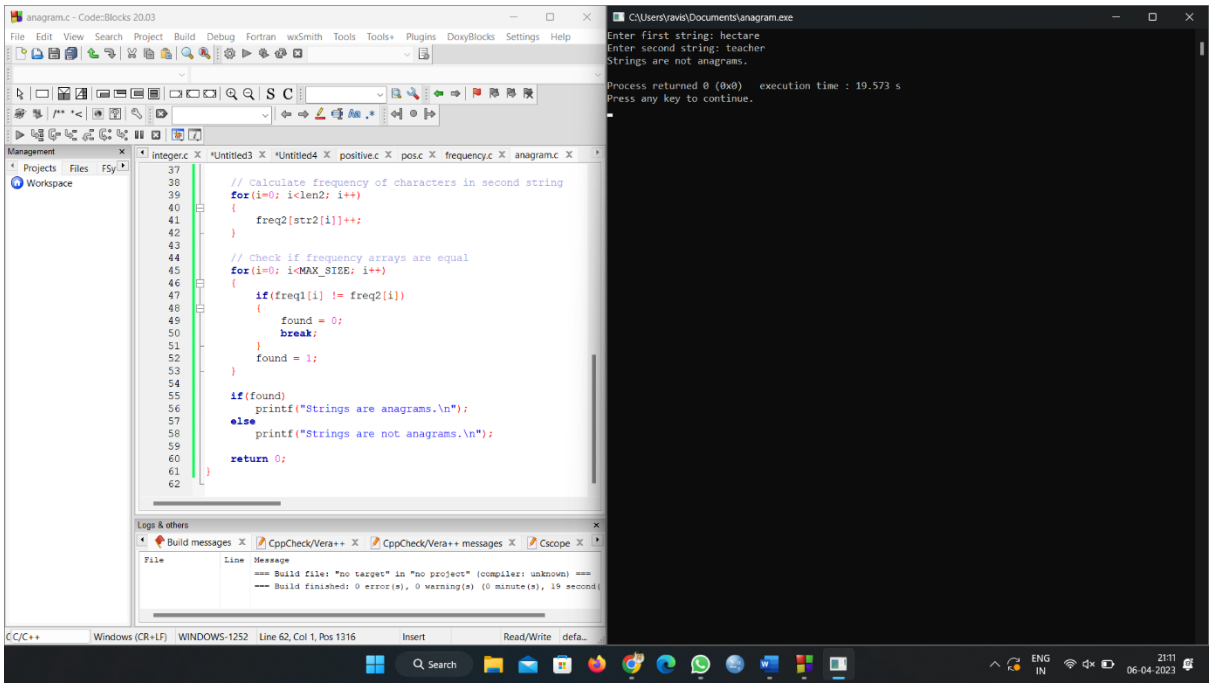


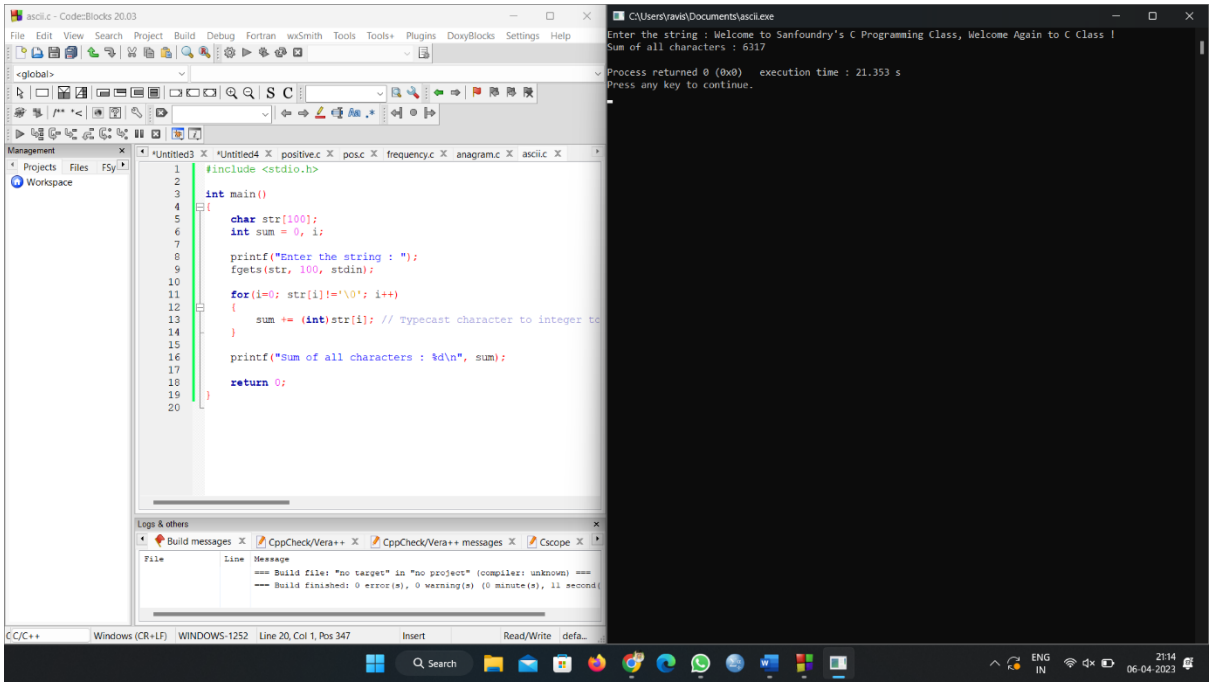


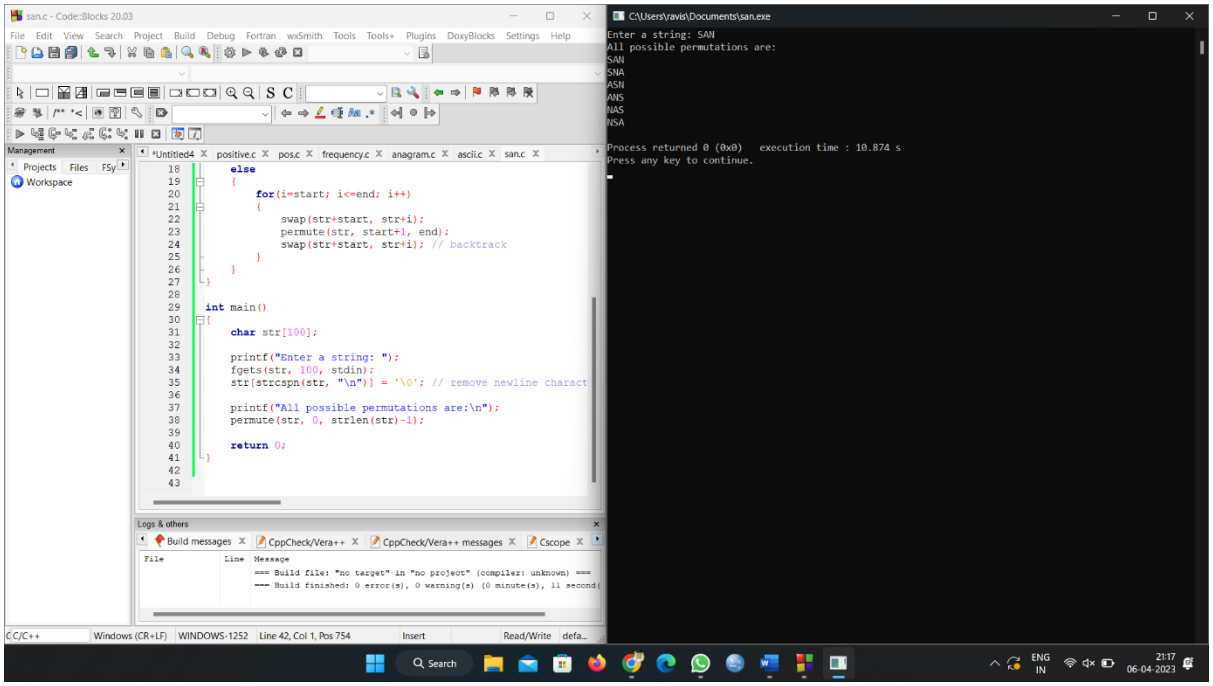

positive.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Start here *prime.c integer.c *Untitled3 *Untitled4 positive.c
int gcd(int num1, int num2);
int main()
{
int num1, num2, result;
printf("Enter two positive integers: ");
scanf("%d %d", &num1, &num2);
result = gcd(num1, num2);
printf("GCD of %d and %d is %d\n", num1, num2, result);
return 0;
}
// Recursive function to find GCD of two numbers
int gcd(int num1, int num2)
{
if (num2 == 0)
return num1;
return gcd(num2, num1 % num2);
}
Logs & others
Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope
File Line Message
=== Build file: "no target" in "no project" (compiler: unknown) ===
=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 22 second(
C/C++ Windows (CR+LF) WINDOWS-1252 Line 27, Col 1, Pos 464 Insert Read/Write defa...
C:\Users\ravis\Documents\positive.exe
Enter two positive integers: 24 36
GCD of 24 and 36 is 12
Process returned 0 (0x0) execution time : 21.664 s
Press any key to continue.
Search
ENG
IN
21:03
06-04-2023

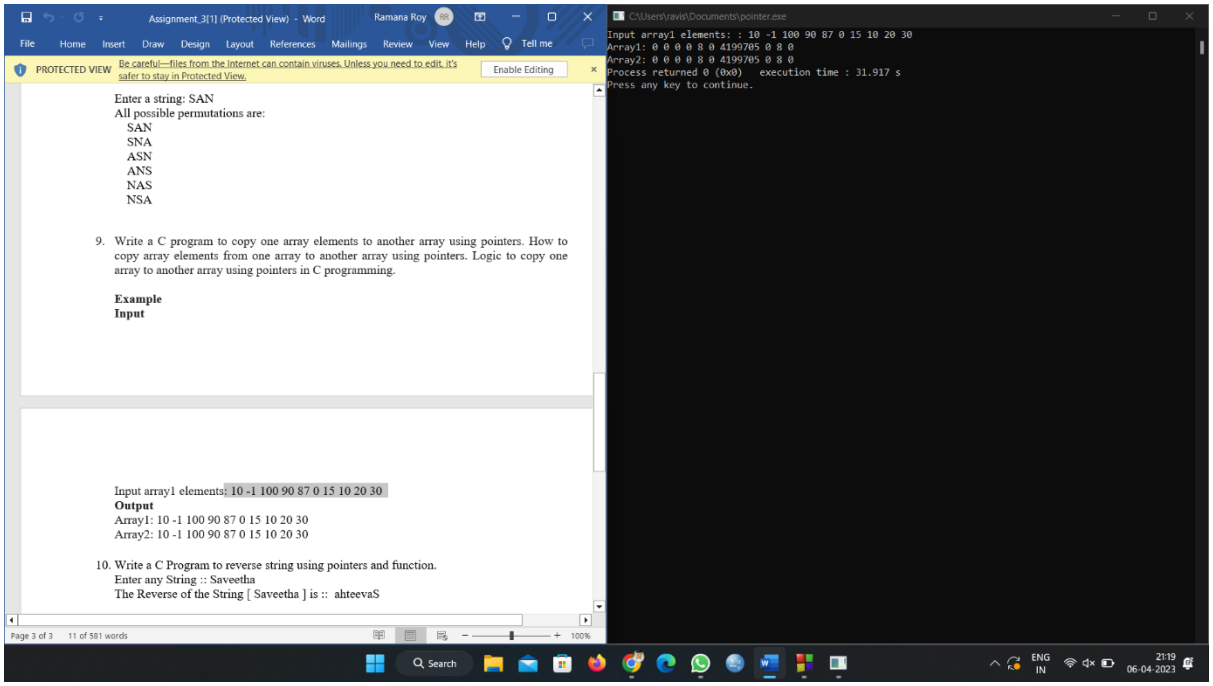

pos.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Start here *prime.c integer.c *Untitled3 *Untitled4 positive.c pos.c
{
int num1, num2, gcd, lcm;
printf("Enter two positive integers: ");
scanf("%d %d", &num1, &num2);
// Find GCD of the two numbers
gcd = findGCD(num1, num2);
// Calculate LCM using the formula: LCM = (num1 * num2) /
lcm = (num1 * num2) / gcd;
printf("LCM of %d and %d is %d\n", num1, num2, lcm);
return 0;
}
// Recursive function to find GCD of two numbers
int findGCD(int num1, int num2)
{
if (num2 == 0)
return num1;
return findGCD(num2, num1 % num2);
}
Logs & others
Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope
File Line Message
=== Build file: "no target" in "no project" (compiler: unknown) ===
=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 12 second(
C/C++ Windows (CR+LF) WINDOWS-1252 Line 31, Col 1, Pos 613 Insert Read/Write defa...
C:\Users\ravis\Documents\pos.exe
Enter two positive integers: 10 15
LCM of 10 and 15 is 30
Process returned 0 (0x0) execution time : 26.374 s
Press any key to continue.
Search
ENG
IN
21:05
06-04-2023

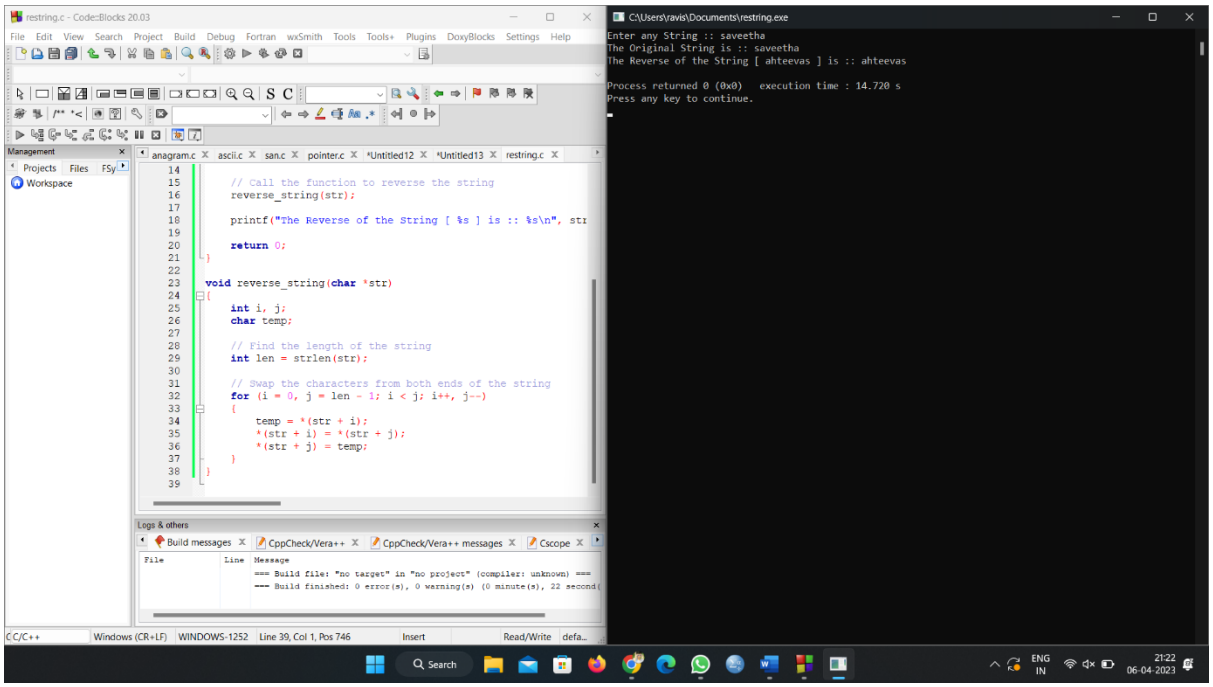

frequency.c - Code::Blocks 20.03
C:\Users\ravis\Documents\frequency.exe
Enter a string : Welcome to Sanfoundry's C Programming Class !
Max repeated character in the string = o
It occurs 4 times
Process returned 0 (0x0) execution time : 14.958 s
Press any key to continue.
maxCount = 0;
for(i=0; str[i] != '\0'; i++)
count = 1;
for(j=i+1; str[j] != '\0'; j++)
if(str[i] == str[j] && str[i] != ' ')
count++;
if(count > maxCount)
maxCount = count;
maxChar = str[i];
printf("Max repeated character in the string = %c\n", max
printf("It occurs %d times\n", maxCount);
return 0;


anagram.c - Code::Blocks 20.03
C:\Users\ravis\Documents\anagram.exe
Enter first string: hectare
Enter second string: teacher
Strings are not anagrams.
Process returned 0 (0x0) execution time : 19.573 s
Press any key to continue.
// Calculate frequency of characters in second string
for(i=0; i<len2; i++)
freq2[str2[i]]++;
// Check if frequency arrays are equal
for(i=0; i<MAX_SIZE; i++)
if(freq1[i] != freq2[i])
found = 0;
break;
found = 1;
if(found)
printf("Strings are anagrams.\n");
else
printf("Strings are not anagrams.\n");
return 0;


ascii.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
Management
Projects Files FSy
Workspace
*Untitled3 *Untitled4 positive.c pos.c frequency.c anagram.c ascii.c
1 #include <stdio.h>
2
3 int main()
4 {
5 char str[100];
6 int sum = 0, i;
7
8 printf("Enter the string : ");
9 fgets(str, 100, stdin);
10
11 for(i=0; str[i]!='\0'; i++)
12 {
13 sum += (int)str[i]; // Typecast character to integer to
14 }
15
16 printf("Sum of all characters : %d\n", sum);
17
18 return 0;
19 }
20
Logs & others
Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope
File Line Message
=== Build file: "no target" in "no project" (compiler: unknown) ===
--- Build finished: 0 error(s), 0 warning(s) (0 minute(s), 11 second(
C/C++ Windows (CR+LF) WINDOWS-1252 Line 20, Col 1, Pos 347 Insert Read/Write defa...
C:\Users\ravis\Documents\ascii.exe
Enter the string : Welcome to Sanfoundry's C Programming Class, Welcome Again to C Class !
Sum of all characters : 6317
Process returned 0 (0x0) execution time : 21.353 s
Press any key to continue.
Search
ENG
IN
21:14
06-04-2023


san.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management
Projects Files FSy
Workspace
*Untitled4 positive.c pos.c frequency.c anagram.c ascii.c san.c
18 else
19 {
20 for(i=start; i<=end; i++)
21 {
22 swap(str+start, str+i);
23 permute(str, start+1, end);
24 swap(str+start, str+i); // backtrack
25 }
26 }
27 }
28
29 int main()
30 {
31 char str[100];
32
33 printf("Enter a string: ");
34 fgets(str, 100, stdin);
35 str[strcspn(str, "\n")] = '\0'; // remove newline charact
36
37 printf("All possible permutations are:\n");
38 permute(str, 0, strlen(str)-1);
39
40 return 0;
41 }
42
43
Logs & others
Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope
File Line Message
=== Build file: "no target" in "no project" (compiler: unknown) ===
--- Build finished: 0 error(s), 0 warning(s) (0 minute(s), 11 second(
C/C++ Windows (CR+LF) WINDOWS-1252 Line 42, Col 1, Pos 754 Insert Read/Write defa...
C:\Users\ravis\Documents\san.exe
Enter a string: SAN
All possible permutations are:
SAN
SNA
ASN
ANS
NAS
NSA
Process returned 0 (0x0) execution time : 10.874 s
Press any key to continue.
Search
ENG
IN
21:17
06-04-2023


Assignment_3[1] (Protected View) - Word
Ramana Roy
PROTECTED VIEW
Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View.
Enable Editing
Enter a string: SAN
All possible permutations are:
SAN
SNA
ASN
ANS
NAS
NSA
9. Write a C program to copy one array elements to another array using pointers. How to copy array elements from one array to another array using pointers. Logic to copy one array to another array using pointers in C programming.
Example
Input
Input array1 elements: 10 -1 100 90 87 0 15 10 20 30
Output
Array1: 10 -1 100 90 87 0 15 10 20 30
Array2: 10 -1 100 90 87 0 15 10 20 30
10. Write a C Program to reverse string using pointers and function.
Enter any String :: Saveetha
The Reverse of the String [Saveetha] is :: ahteevaS
C:\Users\ravis\Documents\pointer.exe
Input array1 elements: : 10 -1 100 90 87 0 15 10 20 30
Array1: 0 0 0 0 8 0 4199705 0 8 0
Array2: 0 0 0 0 8 0 4199705 0 8 0
Process returned 0 (0x0) execution time : 31.917 s
Press any key to continue.
Search
ENG
IN
21:19
06-04-2023


restring.c - Code::Blocks 20.03
anagram.c
ascii.c
san.c
pointer.c
*Untitled12
*Untitled13
restring.c
// Call the function to reverse the string
reverse_string(str);
printf("The Reverse of the String [%s] is :: %s\n", str
return 0;
void reverse_string(char *str)
int i, j;
char temp;
// Find the length of the string
int len = strlen(str);
// Swap the characters from both ends of the string
for (i = 0, j = len - 1; i < j; i++, j--)
temp = *(str + i);
*(str + i) = *(str + j);
*(str + j) = temp;
Build messages
CppCheck/Vera++
CppCheck/Vera++ messages
Cscope
C:\Users\ravis\Documents\restring.exe
Enter any String :: saveetha
The Original String is :: saveetha
The Reverse of the String [ahteevas] is :: ahteevas
Process returned 0 (0x0) execution time : 14.720 s
Press any key to continue.
Search
ENG
IN
21:22
06-04-2023