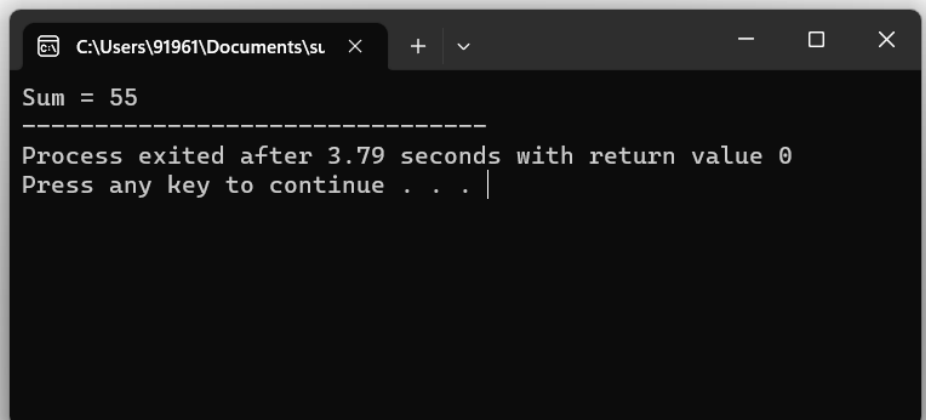


sum.cpp

```
1  #include <stdio.h>
2
3  // Returns the sum of first n
4  // natural numbers
5  int recSum(int n)
6  {
7      // Base condition
8      if (n <= 1)
9          return n;
10
11     // Recursive call
12     return n + recSum(n - 1);
13 }
14
15 // Driver code
16 int main()
17 {
18     int n = 10;
19     printf("Sum = %d ", recSum(n));
20     return 0;
21 }
```



The screenshot shows a Windows command prompt window with the title bar "C:\Users\91961\Documents\sl". The window displays the output of the program: "Sum = 55", followed by a separator line of dashes, and then the message "Process exited after 3.79 seconds with return value 0". The prompt "Press any key to continue . . ." is visible at the bottom of the window.

```
C:\Users\91961\Documents\sl >
Sum = 55
-----
Process exited after 3.79 seconds with return value 0
Press any key to continue . . .
```

```
swapping the element.cpp × no of integers.cpp ×
1
2  #include<stdio.h>
3  int main(){
4  int a;
5  printf("enter the no");
6  scanf("%d",&a);
7  if(a%0)
8  {
9      printf("no is divisible by 5");
10 }
11 else
12 {
13     printf("the num is not visible");
14     return 0;
15 }
16 }
```

```
C:\Users\91961\Documents\nr × + v
enter the no 25
-----
Process exited after 16.76 seconds with return value 3221225620
Press any key to continue . . . |
```

```
swapping the element.cpp × no of integers.cpp ×
1
2  #include<stdio.h>
3  int main(){
4  int a;
5  printf("enter the no");
6  scanf("%d",&a);
7  if(a%0)
8  {
9      printf("no is divisible by 5");
10 }
11 else
12 {
13     printf("the num is not visible");
14     return 0;
15 }
16 }
```

```
C:\Users\91961\Documents\nr × + v - □ ×
enter the no 25
-----
Process exited after 16.76 seconds with return value 3221225620
Press any key to continue . . . |
```

```
perfect.cpp ×
1 #include <stdio.h>
2
3 int main()
4 {
5     int number, rem, sum = 0, i;
6
7     printf("Enter a Number: ");
8     scanf("%d", &number);
9     for (i = 1; i <= (number - 1); i++)
10    {
11        rem = number % i;
12        if (rem == 0)
13        {
14            sum = sum + i;
15        }
16    }
17    if (sum == number)
18        printf("%d is perfect number", number);
19    else
20        printf("%d is not a perfect number", number);
21    return 0;
22 }
```

```
C:\Users\91961\Documents\pr × + ▾
Enter a Number: 6
6 is perfect number
-----
Process exited after 15.35 seconds with return value 0
Press any key to continue . . . |
```

[*] odd or even.cpp × even or odd.cpp ×

```
1 #include<stdio.h>
2 #include<conio.h>
3 int main()
4 {
5     int a;
6
7     printf("Enter a number: ");
8     scanf("%d", &a);
9     if(a%2==0)
10 {
11     printf("Even number");
12 }
13 else
14 {
15     printf("Odd number");
16 }
17 getch();
18 return 0;
19 }
```

C:\Users\91961\Docum ×

Enter a number: 55
Odd number|

```
not prime.cpp ×
1 #include <stdio.h>
2 main() {
3     int n, i, c = 0;
4     printf("Enter any number n:");
5     scanf("%d", &n);
6
7     //Logic
8     for (i = 1; i <= n; i++) {
9         if (n % i == 0) {
10             c++;
11         }
12     }
13
14     if (c == 2) {
15         printf("n is a prime number");
16     }
17     else {
18         printf("n is not a prime number");
19     }
20     return 0;
21 }
22 }
```

```
C:\Users\91961\Documents\nr × + -
Enter any number n:8
n is not a prime number
-----
Process exited after 12.28 seconds with return value 0
Press any key to continue . . . |
```

palindrome number.cpp

```
1  /**
2   * C program to check palindrome number using recursion
3   */
4
5  #include <stdio.h>
6  #include <math.h>
7
8
9  /* Function declarations */
10 int reverse(int num);
11 int isPalindrome(int num);
12
13
14
15 int main()
16 {
17     int num;
18
19     /* Input any number from user */
20     printf("Enter any number: ");
21     scanf("%d", &num);
22
23     if(isPalindrome(num) == 1)
24     {
25         printf("%d is palindrome number.\n", num);
26     }
27     else
28     {
29         printf("%d is NOT palindrome number.\n", num);
30     }
31
32     return 0;
```

Enter any number: 8
8 is palindrome number.

Process exited after 3.287 seconds with return value 0
Press any key to continue . . . |

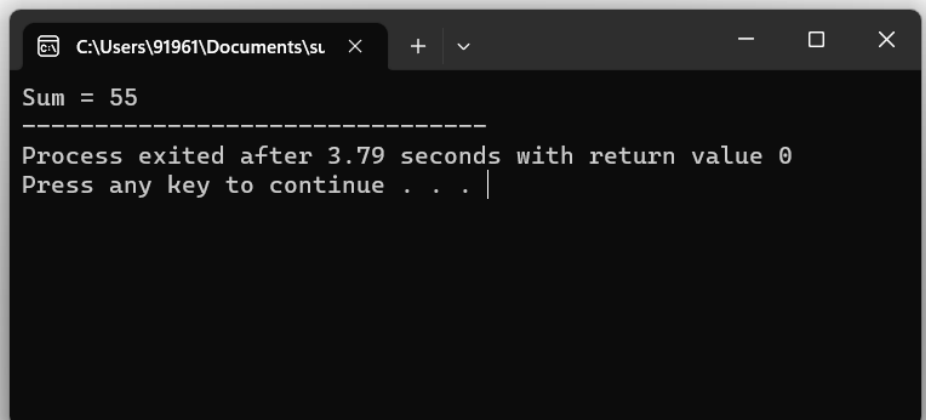
sources Compile Log Debug Find Results Console Close

```
positive.cpp
1 #include <stdio.h>
2 int main() {
3     int n, i, sum = 0;
4
5     printf("Enter a positive integer: ");
6     scanf("%d", &n);
7
8     for (i = 1; i <= n; ++i) {
9         sum += i;
10    }
11
12    printf("Sum = %d", sum);
13    return 0;
14 }
15
```

```
C:\Users\91961\Documents\pr
Enter a positive integer: 8
Sum = 36
-----
Process exited after 17.91 seconds with return value 0
Press any key to continue . . .
```


sum.cpp

```
1  #include <stdio.h>
2
3  // Returns the sum of first n
4  // natural numbers
5  int recSum(int n)
6  {
7      // Base condition
8      if (n <= 1)
9          return n;
10
11     // Recursive call
12     return n + recSum(n - 1);
13 }
14
15 // Driver code
16 int main()
17 {
18     int n = 10;
19     printf("Sum = %d ", recSum(n));
20     return 0;
21 }
```

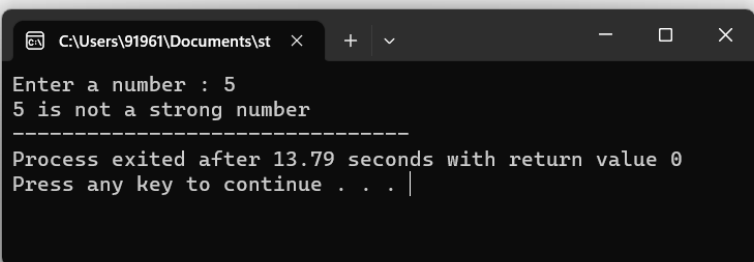


The screenshot shows a Windows command prompt window with the title bar "C:\Users\91961\Documents\sl". The window displays the output of the program: "Sum = 55", followed by a separator line of dashes, and then the message "Process exited after 3.79 seconds with return value 0". The prompt "Press any key to continue . . ." is visible at the bottom.

```
C:\Users\91961\Documents\sl >
Sum = 55
-----
Process exited after 3.79 seconds with return value 0
Press any key to continue . . .
```

strong number.cpp

```
1 #include<stdio.h>
2 int main(){
3     int n,i;
4     int fact,rem;
5     printf("Enter a number : ");
6     scanf("%d",&n);
7     printf("");
8     int sum = 0;
9     int temp = n;
10    while(n){
11        i = 1,fact = 1;
12        rem = n % 10;
13        while(i <= rem){
14            fact = fact * i;
15            i++;
16        }
17        sum = sum + fact;
18        n = n / 10;
19    }
20    if(sum == temp)
21        printf("%d is a strong number",temp);
22    else
23        printf("%d is not a strong number",temp);
24    return 0;
25 }
```



```
C:\Users\91961\Documents\st >
Enter a number : 5
5 is not a strong number
-----
Process exited after 13.79 seconds with return value 0
Press any key to continue . . . |
```

```
1 # include <stdio.h>
2 int main () {
3     int a,b,temp;
4     printf("enter a");
5     scanf("%d",&a);
6     printf("enter b");
7     scanf("%d",&b);
8     temp=a;
9     a=b;
10    b=temp;
11    printf("after swapping nthe element,%d\n",a);
12    printf("after swapping the element,%d",b);
13    return 0;
14 }
15
```

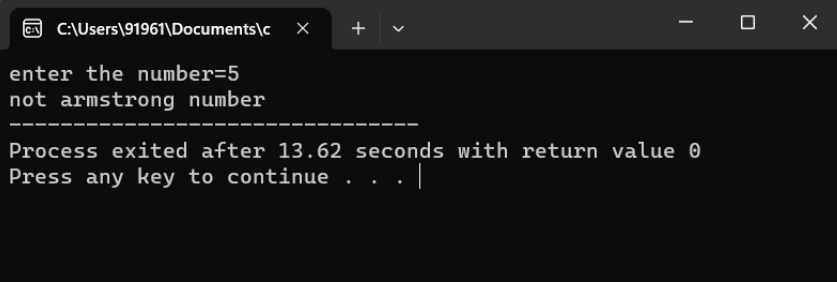
```
C:\Users\91961\Documents\sv × + ∨
enter a13
enter bafter swapping nthe element,0
after swapping the element,0
-----
Process exited after 11.22 seconds with return value 0
Press any key to continue . . .
```

```
two numbers.cpp ×
1 #include<stdio.h>
2 int main()
3 {
4     int number1, number2, sum;
5
6     printf("Enter two integers: ");
7     scanf("%d %d", &number1, &number2);
8
9     //calculate the sum
10    sum = number1 + number2;
11
12    printf("%d + %d = %d", number1, number2, sum);
13    return 0;
14 }
15
16
17
```

```
C:\Users\91961\Documents\tv × + ▾
Enter two integers: 6,7
6 + 0 = 6
-----
Process exited after 13.52 seconds with return value 0
Press any key to continue . . . |
```

c pro day 1 cpp6.cpp

```
1  #include<stdio.h>
2  int main()
3  {
4  int n,r,sum=0,temp;
5  printf("enter the number=");
6  scanf("%d",&n);
7  temp=n;
8  while(n>0)
9  {
10 r=n%10;
11 sum=sum+(r*r*r);
12 n=n/10;
13 }
14 if(temp==sum)
15 printf("armstrong number ");
16 else
17 printf("not armstrong number");
18 return 0;
19 }
```



```
C:\Users\91961\Documents\c  x  +  v  -  □  x

enter the number=5
not armstrong number
-----
Process exited after 13.62 seconds with return value 0
Press any key to continue . . . |
```