

C:\Users\harsh\OneDrive\Desktop\TOC Experiments\exp 16.cpp - [Executing] - Embarcadero Dev-C++ 6.3

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 9.2.0 64-bit Release

(globals)

Project C < > Untitled1 x sort pointers.cpp x missing.cpp x triangle.cpp x exp.

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int n;
6     cout << "Enter a positive integer: ";
7     cin >> n;
8     for(int i=1;i<=10;i++)
9     {
10        cout << n << " * " << i << " = " << n * i << endl;
11    }
12    return 0;
13 }
```

Line: 10 Col: 58 Sel: 0 Lines: 13 Length: 247 Insert Done p

Enter a positive integer: 18

18 * 1 = 18
18 * 2 = 36
18 * 3 = 54
18 * 4 = 72
18 * 5 = 90
18 * 6 = 108
18 * 7 = 126
18 * 8 = 144
18 * 9 = 162
18 * 10 = 180

Process exited after 2.178 seconds with return value 0
Press any key to continue . . .

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int n1=0,n2=1,n3,i,n;
6     cout << "Enter the number of elements: ";
7     cin >> n;
8     cout << n1 << " " << n2 << " ";
9     for(i=2;i<n;i++)
10    {
11        n3=n1+n2;
12        cout << n3 << " ";
13        n1=n2;
14        n2=n3;
15    }
16    return 0;
17 }
```

Enter the number of elements: 9

0 1 1 2 3 5 8 13 21

Process exited after 1.382 seconds with return value 0

Press any key to continue . . .

C:\Users\harsh\OneDrive\Desktop\TOC Experiments\exp 18.cpp - [Executing] - Embarcadero Dev-C++ 6.3

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TDM-GCC 9.2.0 64-bit Release

(globals)

Project C < > Untitled1 x sort pointers.cpp x missing.cpp x triangle.cpp x exp.cpp x sort.cpp x [*] exp 16.cpp x exp 17.cpp x exp 18.cpp x

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int n,i,flag=0;
6     cout << "Enter the Number: ";
7     cin >> n;
8     for(i=2;i<=n/2;i++)
9     {
10         if(n%i==0)
11         {
12             cout << "Not a Prime Number";
13             flag=1;
14             break;
15         }
16     }
17     if (flag==0)
18     {
19         cout << "Prime Number";
20     }
21     return 0;
22 }
```

Line: 19 Col: 22 Sel: 0 Lines: 22 Length:

C:\Users\harsh\OneDrive\Des x + v

Enter the Number: 28
Not a Prime Number

Process exited after 3.42 seconds with return value 0
Press any key to continue . . . |

13:39
03-01-2024

(globals)

Project C < > Untitled1 x sort pointers.cpp x missing.cpp x triangle.cpp x exp.cpp x sort.cpp x [x] exp 16.cpp x

exp 17.cpp

```
1 #include <iostream>
2 #include <string>
3 using namespace std;
4 int main() {
5     string word;
6     cout << "Enter a word: ";
7     cin >> word;
8     int start=0;
9     int end=word.length()-1;
10    bool isPalindrome = true;
11    while (start < end) {
12        if (word[start] != word[end]) {
13            isPalindrome = false;
14            break;
15        }
16        start++;
17        end--;
18    }
19    if (isPalindrome) {
20        cout << "Palindrome";
21    } else {
22        cout << "Not a palindrome";
23    }
24    return 0;
25 }
```

Line: 20 Col: 28 Sel: 0 Lines: 25 Length: 52

C:\Users\harsh\OneDrive\Des

Enter a word: madam

Palindrome

Process exited after 9.504 seconds with return value 0

Press any key to continue . . .



Search

ENG
IN14:23
03-01-2024

(globals)

Project C < > Untitled1 x sort pointers.cpp x missing.cpp

exp 17.cpp

exp 18.cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n,i,sum=0;
6     cout << "Enter the number: ";
7     cin >> n;
8     while(n!=0)
9     {
10         i=n%10;
11         sum=sum+i;
12         n=n/10;
13     }
14     cout<<"Sum of Digits of a number= " << sum;
15     return 0;
16 }
```

Line: 14 Col: 12 Sel: 0 Lines: 16 Length: 277 Insert

C:\Users\harsh\OneDrive\Des x + v

Enter the number: 436
Sum of Digits of a number= 13

Process exited after 1.647 seconds with return value 0
Press any key to continue . . . |



Search

ENG
IN14:26
03-01-2024

(globals)

Project C gcd.cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n1,n2;
6     cout << "enter two numbers:";
7     cin >> n1;
8     cin >> n2;
9     int gcd;
10    do
11    {
12        gcd=n1%n2;
13        n1=n2;
14        n2=gcd;
15    }
16    while (n2!=0);
17    cout << "Gcd:" << n1 << endl;
18    return 0;
19 }
```

C:\Users\harsh\OneDrive\Des

```
enter two numbers:15
25
Gcd:5
```

```
-----
Process exited after 7.763 seconds with return value 0
Press any key to continue . . .
```

English (India)
English (India)

To switch input methods, press Windows key + space.

Line: 18 Col: 14 Sel: 0 Lines: 19 Length:



Search

ENG
IN12:19
05-01-2024

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n;
6     cout << "enter a number:";
7     cin >> n;
8     int i,sum=0;
9     for(i=1;i<n;i++)
10    {
11        if (n%i==0)
12        {
13            sum=sum+i;
14        }
15    }
16    if (n==sum)
17    {
18        cout << "Perfect number.";
19    }
20    else
21    {
22        cout << "Not perfect";
23    }
24    return 0;
25 }
```

```
enter a number:28
Perfect number.
```

```
-----
Process exited after 1.271 seconds with return value 0
Press any key to continue . . . |
```

(globals)

Project C gcd.cpp [*] perfect.cpp amstrong.cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n;
6     cout << "enter a number:";
7     cin >> n;
8     int i,sum=0;
9     int temp=n;
10    while (temp>0)
11    {
12        i=temp%10;
13        sum=sum+i*i*i;
14        temp=temp/10;
15    }
16    if(n==sum)
17    {
18        cout << "Amstrong number.";
19    }
20    else
21    {
22        cout << "Not an amstrong number.";
23    }
24    return 0;
25 }
```

Line: 22 Col: 43 Sel: 0 Lines: 25 Length: 328

C:\Users\harsh\OneDrive\Des

enter a number:370

Amstrong number.

Process exited after 3.189 seconds with return value 0

Press any key to continue . . .



(globals)

Project C gcd.cpp [*] perfect.cpp amstrong.cpp harshad.cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n;
6     cout << "enter a number:";
7     cin >> n;
8     int i=0,sum=0;
9     int temp=n;
10    while (temp>0)
11    {
12        i=temp%10;
13        sum=sum+i;
14        temp=temp/10;
15    }
16    if(n%sum==0)
17    {
18        cout << n << " is harshad number.";
19    }
20    else
21    {
22        cout << n << " is not a harshad number.";
23    }
24    return 0;
25 }
```

Line: 22 Col: 24 Sel: 0 Lines: 25 Length: 343 Insert

C:\Users\harsh\OneDrive\Des

enter a number:156
156 is harshad number.

Process exited after 1.574 seconds with return value 0
Press any key to continue . . .



Search

ENG
IN12:55
05-01-2024

Project C gdc.cpp [*] perfect.cpp amstrong.cpp harshad.cpp happy.cpp

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int num;
6     cout << "Enter a number: ";
7     cin >> num;
8     int sum=0;
9     while (num!=1 && num!=4) {
10         sum=0;
11         while (num>0) {
12             int i=num%10;
13             sum+=i*i;
14             num/= 10;
15         }
16         num=sum;
17     }
18     if (num==1)
19     {
20         cout << "Is a happy number" << endl;
21     }
22     else
23     {
24         cout << "Is not a happy number.";
25     }
26     return 0;
27 }
```

C:\Users\harsh\OneDrive\Des

Enter a number: 28
Is a happy number

Process exited after 5.586 seconds with return value 0
Press any key to continue . . .

Line: 1 Col: 20 Sel: 0 Lines: 27 Length: 469 Insert

McAfee

(globals)

Project C strong.cpp strong.cpp

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int n;
6     cout << "Enter a number: ";
7     cin >> n;
8     int temp=n;
9     int sum=0;
10    while(temp>0)
11    {
12        int dig=temp%10;
13        int factorial=1;
14        for (int i=1;i<=dig;i++)
15        {
16            factorial*=i;
17        }
18        sum+=factorial;
19        temp/=10;
20    }
21    if (sum==n)
22    {
23        cout << "It is a strong number" << endl;
24    }
25    else
26    {
27        cout << "It is not a strong number." << endl;
28    }
29    return 0;
30 }
```

Line: 4 Col: 2 Sel: 0 Lines: 30 Length: 520 Insert

C:\Users\harsh\OneDrive\Des

Enter a number: 40585
It is a strong number

Process exited after 3.459 seconds with return value 0
Press any key to continue . . .



Search

ENG
IN13:22
05-01-2024

(globals)

Project C strong.cpp strong.cpp buzz.cpp

```
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      int n;
6      cout << "Enter a number: ";
7      cin >> n;
8      if (n%7==0 || n%10==7)
9      {
10         cout << "It is a buzz number" << endl;
11     }
12     else
13     {
14         cout << "It is not a buzz number." << endl;
15     }
16     return 0;
17 }
```

Line: 10 Col: 37 Sel: 0 Lines: 17 Length: 292 Insert

C:\Users\harsh\OneDrive\Des

Enter a number: 57
It is a buzz number

Process exited after 2.151 seconds with return value 0
Press any key to continue . . .



Search

ENG
IN13:25
05-01-2024

(globals)

Project C strong.cpp strong.cpp buzz.cpp neon.cpp

```
1  #include <iostream>
2  using namespace std;
3  int main() {
4      int num, sum = 0;
5      cout << "Enter a number: ";
6      cin >> num;
7      int square=num*num;
8      while (square>0)
9      {
10         sum+=square%10;
11         square/=10;
12     }
13     if(sum==num)
14     {
15         cout << num << " is a neon number.";
16     }
17     else
18     {
19         cout << num << " is not a neon number.";
20     }
21     return 0;
22 }
```

C:\Users\harsh\OneDrive\Des

```
Enter a number: 9
9 is a neon number.
```

```
-----
Process exited after 1.475 seconds with return value 0
Press any key to continue . . .
```

Line: 14 Col: 4 Sel: 0 Lines: 22 Length:

(globals)

Project C strong.cpp strong.cpp buzz.cpp neon.cpp abundant.cpp

```
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      int n;
6      cout << "Enter a number: ";
7      cin >> n;
8      int sum= 0;
9      for (int i=1;i<n;i++)
10     {
11         if (n%i==0)
12         {
13             sum+=i;
14         }
15     }
16     if (sum>n)
17     {
18         cout << "It is an abundant number" << endl;
19     }
20     else
21     {
22         cout << "It is not an abundant number." << endl;
23     }
24     return 0;
25 }
26
```

Line: 22 Col: 22 Sel: 0 Lines: 26 Length: 406 Insert

C:\Users\harsh\OneDrive\Des

Enter a number: 36
It is an abundant number

Process exited after 3.78 seconds with return value 0
Press any key to continue . . .



Search

ENG
IN13:32
05-01-2024

```
1 #include <iostream>
2 #include <cmath>
3 using namespace std;
4 int main()
5 {
6     int n;
7     cout << "Enter a number: ";
8     cin >> n;
9     int temp=n;
10    int numDigits=0;
11    int sum=0;
12    while (temp>0) {
13        temp/=10;
14        numDigits++;
15    }
16    temp=n;
17    while (temp>0)
18    {
19        int i=temp%10;
20        sum+=pow(i,numDigits);
21        temp/=10;
22    }
23    if (sum==n)
24    {
25        cout << "It is a narcissistic number." << endl;
26    }
27    else
28    {
29        cout << "It is not a narcissistic number." << endl;
30    }
31    return 0;
32 }
```

Line: 3 Col: 21 Sel: 0 Lines: 32 Length: 557 Insert

Enter a number: 9474
It is a narcissistic number.

Process exited after 2.684 seconds with return value 0
Press any key to continue . . .



Search

ENG
IN13:50
05-01-2024