File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug

GCD.cpp   perfect or not.cpp   armstrong.cpp

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

C:\Users\HP\OneDrive\Documents\armstrong.exe

```
Enter a number: 371
371 is an Armstrong number.
-----------------------------------
Process exited after 7.012 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Documents\armstrong.exe
- Output Size: 1.83242321014404 MiB
- Compilation Time: 1.39s
```

Line: 18   Col: 18   Sel: 0   Lines: 21   Length: 391   Insert   Done parsing in 0.062 seconds

Type here to search   28°C Mostly cloudy   12:56 PM   Speaker/Headphone: Muted

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug

GCD.cpp   perfect or not.cpp

```cpp
#include<iostream>
using namespace std;
int main()
{
    int n;
    cout<<"enter the number:";
    cin>>n;
    int i,sum=0;
    for(i=1;i<n;i++)
    {
        if(n%i==0)
        {
            sum=sum+i;
        }
    }
    if(n==sum)
    {
        cout<<"it is perfect number.";
    }
    else
    {
        cout<<"it is not perfect number.";
    }
    return 0;
}
```

Select C:\Users\HP\OneDrive\Documents\perfect or not.exe

```
enter the number:8128
it is perfect number.
--------------------------------
Process exited after 6.013 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Documents\perfect or not.exe
- Output Size: 1.83242321014404 MiB
- Compilation Time: 1.66s
```

Line: 22   Col: 43   Sel: 0   Lines: 25   Length: 309   Insert   Done parsing in 0.031 seconds

Type here to search

28°C Mostly cloudy   ENG   12:43 PM   05-01-2024

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

Project   Classes   Debug

GCD.cpp

```cpp
#include <iostream>
using namespace std;
int main() {
    int a,b;
    cout<<"Enter the first number: ";
    cin>>a;
    cout<<"Enter the second number: ";
    cin>>b;
    int gcd;
    do
    {
        gcd=a%b;
        a=b;
        b=gcd;
    }
    while(b!=0);
    cout << "The GCD is: " << a <<endl;
    return 0;
}
```

Select C:\Users\HP\OneDrive\Documents\GCD.exe

```
Enter the first number: 5
Enter the second number: 10
The GCD is: 5

----------------------------------
Process exited after 6.766 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

Shorten compiler paths

```
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Documents\GCD.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 1.44s
```

Line: 5   Col: 34   Sel: 0   Lines: 21   Length: 337   Insert   Done parsing in 0.032 seconds

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File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

sum of digits using while.cpp

C:\Users\HP\OneDrive\Documents\sum of digits using while.exe

```cpp
1    #include<iostream>
2    using namespace std;
3    int main()
4    {
5        int n,rem,sum=0;
6        cout<<"Enter the number: ";
7        cin>>n;
8        while(n!=0)
9        {
10           rem=n%10;
11           sum=sum+rem;
12           n=n/10;
13       }
14       cout<<"\nSum of Digits of a number = "<<sum;
15       cout<<endl;
16       return 0;
17   }
```

```
Enter the number: 4567

Sum of Digits of a number = 22

--------------------------------
Process exited after 7.557 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

Shorten compiler paths

```
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Documents\sum of digits using while.exe
- Output Size: 1.83263778686523 MiB
- Compilation Time: 1.69s
```

Line: 5   Col: 19   Sel: 0   Lines: 17   Length: 299   Insert   Done parsing in 2.094 seconds

Type here to search

01:34 AM
04-01-2024

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug

multiplication table.cpp   fibonacci.cpp   prime number.cpp   strin

```cpp
1    #include <iostream>
2    #include <string>
3    using namespace std;
4    bool isPalindrome(const string&str)
5    {
6        int start=0;
7        int end=str.length()-1;
8        while(start<end)
9        {
10           if(str[start]!=str[end])
11           {
12               return false;
13           }
14           start++;
15           end--;
16       }
17       return true;
18   }
19
20   int main()
21   {
22       string n;
23       cout<<"Enter a string: ";
24       cin>>n;
25       if(isPalindrome(n))
26       {
```

C:\Users\HP\Documents\string palindrome.exe

```
Enter a string: madam
The string is a palindrome.
-----------------------------------
Process exited after 6.326 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\Documents\string palindrome.exe
- Output Size: 1.83249664306641 MiB
- Compilation Time: 1.34s
```

Line: 15   Col: 15   Sel: 0   Lines: 35   Length: 558   Insert   Done parsing in 0.047 seconds

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File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug

multiplication table.cpp   fibonacci.cpp   prime number.cpp

```cpp
#include <iostream>
using namespace std;
int main()
{
    int n,i,flag=0;
    cout<<"Enter the Number: ";
    cin>>n;
    for(i=2;i<=n/2;i++)
    {
        if(n%i==0)
        {
            cout<<"Number is not Prime.";
            flag=1;
            break;
        }
    }
    if(flag==0)
    {
        cout << "Number is Prime.";
    }
    return 0;
}
```

C:\Users\HP\Documents\prime number.exe

```
Enter the Number: 7
Number is Prime.
-----------------------------------
Process exited after 7.913 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\Documents\prime number.exe
- Output Size: 1.83242321014404 MiB
- Compilation Time: 1.41s
```

Line: 6   Col: 26   Sel: 0   Lines: 22   Length: 382   Insert   Done parsing in 0.047 seconds

Type here to search   ENG   01:41 PM   03-01-2024

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

Project   Classes   Debug

GCD.cpp   perfect or not.cpp   armstrong.cpp   harshad or not.cpp   happy or not.c

```cpp
4    {
5        int number;
6        cout<<"Enter a number: ";
7        cin>>number;
8        int temp=number;
9        int sum=0;
10       while(temp>0)
11       {
12           int digit = temp % 10;
13           int factorial = 1;
14           for (int i = 1; i <= digit; i++)
15           {
16               factorial *= i;
17               sum += factorial;
18               temp /= 10;
19           }
20       }
21       if (sum==number)
22       {
23           cout << "It's a strong number!" << endl;
24       }
25       else
26       {
27           cout << "It's not a strong number." << endl;
28       }
29       return 0;
30   }
```

Console output:

```
C:\Users\HP\OneDrive\Documents\strong or not.exe

Enter a number: 145
It's not a strong number.

---------------------------------
Process exited after 22.79 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Documents\strong or not.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 2.08s
```

Line: 20   Col: 5   Sel: 0   Lines: 36   Length: 584   Insert   Done parsing in 0.047 seconds

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File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug

multiplication table.cpp   fibonacci.cpp

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

C:\Users\HP\Documents\fibonacci.exe

```
Enter the number of elements: 5
0 1 1 2 3
--------------------------------
Process exited after 5.865 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\Documents\fibonacci.exe
- Output Size: 1.83242321014404 MiB
- Compilation Time: 2.50s
```

Line: 16   Col: 3   Sel: 0   Lines: 17   Length: 339   Insert   Done parsing in 0.062 seconds

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File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 9.2.0 64-bit Release

(globals)

perfect.cpp   narcistic.cpp

```cpp
#include <iostream>
#include <cmath>
using namespace std;
int main()
{
    int n;
    cout << "Enter a number: ";
    cin >> n;
    int temp=n;
    int numDigits=0;
    int sum=0;
    while (temp>0) {
        temp/=10;
        numDigits++;
    }
    temp=n;
    while (temp>0)
    {
        int i=temp%10;
        sum+=pow(i,numDigits);
        temp/=10;
    }
    if (sum==n)
    {
        cout << "It is a narcissistic number." << endl;
    }
    else
    {
        cout << "It is not a narcissistic number." << endl;
    }
    return 0;
}
```

```
C:\Users\harsh\OneDrive\Des

Enter a number: 153
It is a narcissistic number.

------------------------------------
Process exited after 1.711 seconds with return value 0
Press any key to continue . . .
```

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

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug

multiplication table.cpp

```cpp
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   }
```

C:\Users\HP\Documents\multiplication table.exe

```
Enter a positive integer:19
19 * 1 = 19
19 * 2 = 38
19 * 3 = 57
19 * 4 = 76
19 * 5 = 95
19 * 6 = 114
19 * 7 = 133
19 * 8 = 152
19 * 9 = 171
19 * 10 = 190

--------------------------------
Process exited after 7.244 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\Documents\multiplication table.exe
- Output Size: 1.83263301849365 MiB
- Compilation Time: 1.36s
```

Line: 8   Col: 23   Sel: 0   Lines: 13   Length: 234   Insert   Done parsing in 0.031 seconds

Type here to search   ENG   01:29 PM   03-01-2024

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

Project   Classes   Debug

GCD.cpp   perfect or not.cpp   armstrong.cpp   harshad or not.cpp   hap

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

C:\Users\HP\OneDrive\Documents\neon.exe

```
Enter a number: 9
9 is a neon number!
-----------------------------------
Process exited after 17.05 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

Shorten compiler paths

```
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Documents\neon.exe
- Output Size: 1.83242321014404 MiB
- Compilation Time: 2.34s
```

Line: 22   Col: 2   Sel: 0   Lines: 23   Length: 373   Insert   Done parsing in 0.063 seconds

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File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 9.2.0 64-bit Release

(globals)

strong.cpp   strong.cpp   buzz.cpp

```cpp
#include <iostream>
using namespace std;
int main()
{
    int n;
    cout << "Enter a number: ";
    cin >> n;
    if (n%7==0 || n%10==7)
    {
        cout << "It is a buzz number" << endl;
    }
    else
    {
        cout << "It is not a buzz number." << endl;
    }
    return 0;
}
```

Enter a number: 57
It is a buzz number

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

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

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

Project   Classes   Debug

GCD.cpp   perfect or not.cpp   armstrong.cpp   harshad or not.cpp   happy

```cpp
#include <iostream>
using namespace std;
int main()
{
    int n;
    cout << "Enter a number: ";
    cin >> n;
    int sum=0;
    while (n!=1 && n!=4) {
        sum=0;
        while (n>0) {
            int i=n%10;
            sum+=i*i;
            n/= 10;
        }
        n=sum;
    }
    if (n==1)
    {
        cout << "Is a happy number" << endl;
    }
    else
    {
        cout << "Is not a happy number."<<endl;
    }
    return 0;
}
```

Console output:

```
C:\Users\HP\OneDrive\Documents\happy or not.exe

Enter a number: 68
Is a happy number

--------------------------------
Process exited after 6.212 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Documents\happy or not.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 1.38s
```

Line: 24   Col: 48   Sel: 0   Lines: 27   Length: 459   Insert   Done parsing in 0.093 seconds

strong.cpp ✕ strong.cpp ✕ buzz.cpp ✕ neon.cpp ✕ abundant.cpp ✕

```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
```

```
C:\Users\harsh\OneDrive\Des  ✕    +  ∨

Enter a number: 24
It is an abundant number

--------------------------------------
Process exited after 2.038 seconds with return value 0
Press any key to continue . . .
```

Line: 22 Col: 22 Sel: 0 Lines: 26 Length: 406 Insert   Press Ctrl+F11 to toggle fullscreen or Ctrl+F12 to toggle toolbars

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug

GCD.cpp   perfect or not.cpp   armstrong.cpp   harshad or not.cpp

```cpp
#include<iostream>
using namespace std;
int main()
{
    int n;
    cout<<"enter the number:";
    cin>>n;
    int i,sum=0;
    int temp=n;
    while(temp>0)
    {
        i=temp%10;
        sum=sum+i;
        temp=temp/10;
    }
    if(n%sum==0)
    {
        cout<<n<<" is a harshad number.";
    }
    else
    {
        cout<<n<<" is not a harshad number.";
    }
    return 0;
}
```

C:\Users\HP\OneDrive\Documents\harshad or not.exe

```
enter the number:200
200 is a harshad number.
------------------------------------
Process exited after 2.236 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

Shorten compiler paths

```
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\OneDrive\Documents\harshad or not.exe
- Output Size: 1.83242321014404 MiB
- Compilation Time: 1.44s
```

Line: 18   Col: 15   Sel: 0   Lines: 25   Length: 334   Insert   Done parsing in 0.031 seconds

Type here to search

28°C Mostly cloudy   ENG   01:06 PM 05-01-2024