

main.cpp

Run

Output

Clear

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int i,n,m,a;
6     cout<<"\nEnter the limit:";
7     cin>>n;
8     cout<<"\nEnter the table number:";
9     cin>>a;
10    for(i=1;i<=n;i++)
11    {
12        cout<<"\n"<<a<<"*"<<i<<"="<<a*i;
13    }
14    return 0;
15 }
```

```
/tmp/E4jYUutBQS.o
Enter the limit:6
Enter the table number:4
4*1=4
4*2=8
4*3=12
4*4=16
4*5=20
4*6=24
```

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main.cpp




























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
Clear

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int n, i, f1, f2, f3;
6     cout << "Enter the number: ";
7     cin >> n;
8     f1 = 0;
9     f2 = 1;
10    cout << f1 << " " << f2 << " ";
11    for(i = 1; i < n; i++)
12    {
13        f3 = f1 + f2;
14        cout << f3 << " ";
15        f1 = f2;
16        f2 = f3;
17    }
18    return 0;
19 }
```

```
/tmp/E4jYUutBQS.o
Enter the number: 5
0 1 1 2 3 5
```

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Run














```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int n, sum = 0;
6
7     cout << "Enter a number: ";
8     cin >> n;
9
10    while (n > 0) {
11        sum += n % 10;
12        n /= 10;
13    }
14
15    cout << "Sum of digits: " << sum << endl;
16
17    return 0;
18 }
19
```

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```
/tmp/E4jYUutBQS.o
Enter a number: 56
Sum of digits: 11
```

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main.cpp



Run

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

Output

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```
/tmp/ROqAvA4JDW.o
Enter a number: 28
28 is a perfect number.
```


main.cpp

Run

Output

Clear

```
1 //25.HAPPY NUMBER
2 #include <iostream>
3 #include <unordered_set>
4 using namespace std;
5 int getSumOfSquares(int n) {
6     int sum = 0;
7     while (n > 0) {
8         int digit = n % 10;
9         sum += digit * digit;
10        n /= 10;
11    }
12    return sum;
13 }
14 bool isHappy(int n) {
15     unordered_set<int> visited;
16     while (n != 1 && visited.find(n) == visited.end()) {
17         visited.insert(n);
18         n = getSumOfSquares(n);
19     }
20     return n == 1;
21 }
22 int main() {
23     int num;
24     cout << "Enter a number: ";
25     cin >> num;
26     if (isHappy(num))
27         cout << num << " is a Happy number." << endl;
28     else
29         cout << num << " is not a Happy number." << endl;
30     return 0;
}
```

```
/tmp/R0qAvA4JDW.o
Enter an integer: 567
567 is not a Harshad number.
```


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```
1 //25.STRONG NUMBER
2 #include <iostream>
3 using namespace std;
4 int factorial(int n) {
5     if (n == 0 || n == 1)
6         return 1;
7     else
8         return n * factorial(n - 1);
9 }
10 int main() {
11     int num, originalNum, sum = 0;
12     cout << "Enter an integer: ";
13     cin >> num;
14     originalNum = num;
15     while (num > 0) {
16         sum += factorial(num % 10);
17         num /= 10;
18     }
19     if (sum == originalNum)
20         cout << originalNum << " is a Strong number." << endl;
21     else
22         cout << originalNum << " is not a Strong number." << endl;
23     return 0;
24 }
25
```

Output

Clear

```
/tmp/R0qAvA4JDW.o
Enter an integer: 145
145 is a Strong number.
```

Waiting for www.google.co.in...