



C++ Programming

LINGALA MITHUN KUMAR REDDY
192365017**Questions**

2. Write a program to read in three integers and compute the average of the three numbers. Use the assignment operator to store the result in a variable.

Pyramid-Type1	Pyramid-Type2
RT-Pattern	RT-Pattern
Narcissistic	Abundant
Neon	Buzz
Strong	Happy
Harshad	Armstrong
Perfect	GCD
Sum of All	Palindrome
Prime	Fibonacci
Table	Factorial
Sum of N	Divisible
Equal	Max
Swap	Nearest
Greater	Pos-Neg
Vow-Cons	Floating-Point
Even-Odd	Compare
Arithmatic	Average

Run**Save**

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int s,a,n1,n2,n3;
6     cin>>n1>>n2>>n3;
7     s=n1+n2+n3;
8     a=s/3;
9     cout<<s<<endl<<a;
10 }
```

60 70 80



C++ Programming

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I. Write a program to read in two integers and perform the following operations on them: addition, subtraction, multiplication, division, and modulo.

Pyramid-Type1	Pyramid-Type2
RT-Pattern	RT-Pattern
Narcissistic	Abundant
Neon	Buzz
Strong	Happy
Harshad	Armstrong
Perfect	GCD
Sum of All	Palindrome
Prime	Fibonacci
Table	Factorial
Sum of N	Divisible
Equal	Max
Swap	Nearest
Greater	Pos-Neg
Vow-Cons	Floating-Point
Even-Odd	Compare
Arithmatic	Average

Run**Save**

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int a,s,m,d,mo,n1,n2;
6     cin>>n1>>n2;
7     a=n1+n2;
8     s=n1-n2;
9     m=n1*n2;
10    d=n1/n2;
11    mo=n1%n2;
12    cout<<a<<endl;
13    cout<<s<<endl;
14    cout<<m<<endl;
15    cout<<d<<endl;
16    cout<<mo;
17    return 0;
18 }
```

3
3



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Questions

3. Write a program to read in two integers and determine if they are equal or not.

[Pyramid-Type1](#)[Pyramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Strong](#)[Happy](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Sum of N](#)[Divisible](#)[Equal](#)[Max](#)[Swap](#)[Nearest](#)[Greater](#)[Pos-Neg](#)[Vow-Cons](#)[Floating-Point](#)[Even-Odd](#)[Compare](#)[Arithmetic](#)[Average](#)[Run](#)[Save](#)

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n,m;
6     cin>>n>>m;
7     if(n==m)
8     {
9         cout<<"equal";
10    }
11    else
12    {
13        cout<<"not equal";
14    }
15    return 0;
16 }
```

6 6



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Questions

5. Write a program to read in an integer and determine if it is even or odd.

[Pyramid-Type1](#)[Pyramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Strong](#)[Happy](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Sum of N](#)[Divisible](#)[Equal](#)[Max](#)[Swap](#)[Nearest](#)[Greater](#)[Pos-Neg](#)[Vow-Cons](#)[Floating-Point](#)[Even-Odd](#)[Compare](#)[Arithmetic](#)[Average](#)[Run](#)[Save](#)

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n;
6     cin>>n;
7     if(n%2==0)
8     {
9         cout<<"even";
10    }
11    else
12    {
13        cout<<"odd";
14    }
15    return 0;
16 }
```

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Questions

4. Write a program to read in two floating-point numbers and perform the following operations on them:
 addition, subtraction, multiplication, and division.

*Pyramid-Type1**Pyramid-Type2**RT-Pattern**RT-Pattern**Narcissistic**Abundant**Neon**Buzz**Strong**Happy**Harshad**Armstrong**Perfect**GCD**Sum of All**Palindrome**Prime**Fibonacci**Table**Factorial**Sum of N**Divisible**Equal**Max**Swap**Nearest**Greater**Pos-Neg**Vow-Cons**Floating-Point**Even-Odd**Compare**Arithmetic**Average*

Run

Save

```

1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     float n1,n2;
6     int a,s,m,d;
7     cin>>n1>>n2;
8     a=n1+n2;
9     s=n1-n2;
10    m=n1*n2;
11    d=n1/n2;
12    cout<<a<<endl;
13    cout<<s<<endl;
14    cout<<m<<endl;
15    cout<<d;
16    return 0;
17 }
```

4.5

4.5



C++ Programming

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7. Write a program to read in a character and determine if it is a vowel or a consonant.

[Pyramid-Type1](#)[Pyramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Strong](#)[Happy](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Sum of N](#)[Divisible](#)[Equal](#)[Max](#)[Swap](#)[Nearest](#)[Greater](#)[Pos-Neg](#)[Vow-Cons](#)[Floating-Point](#)[Even-Odd](#)[Compare](#)[Arithmetic](#)[Average](#)[Run](#)[Save](#)

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     char h;
6     cin>>h;
7     if(h=='a'||h=='e'||h=='i'||h=='o'||h=='u')
8     {
9         cout<<"vowles";
10    }
11    else
12    {
13        cout<<"constants";
14    }
15    return 0;
16 }
```

a



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Questions

6. Write a program to read in an integer and determine if it is positive, negative, or zero.

[Pyramid-Type1](#)[Pyramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Strong](#)[Happy](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Sum of N](#)[Divisible](#)[Equal](#)[Max](#)[Swap](#)[Nearest](#)[Greater](#)[Pos-Neg](#)[Vow-Cons](#)[Floating-Point](#)[Even-Odd](#)[Compare](#)[Arithmetic](#)[Average](#)[Run](#)[Save](#)

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n;
6     cin>>n;
7     if(n>0)
8     {
9         cout<<"positive";
10    }
11    else if(n<0)
12    {
13        cout<<"negative";
14    }
15    else
16    {
17        cout<<"zero";
18    }
19    return 0;
20 }
```

999



C++ Programming

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Questions

8. Write a program to read in two integers and use the conditional operator to determine which number is greater.

Pyramid-Type1

Pyramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Sum of N

Divisible

Equal

Max

Swap

Nearest

Greater

Pos-Neg

Vow-Cons

Floating-Point

Even-Odd

Compare

Arithmetic

Average

Run

Save

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n,m;
6     cin>>n>>m;
7     if(n>m)
8     {
9         cout<<n;
10    }
11    else if(n<m)
12    {
13        cout<<m;
14    }
15    else
16    {
17        cout<<"equal";
18    }
19    return 0;
20 }
```

5

1



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Questions

I/O: Write a program to read in a floating-point number and round it to the nearest integer using the floor and ceil functions.

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Sum of N

Divisible

Equal

Max

Swap

Nearest

Greater

Pos-Neg

Run

Save

```
1 #include<iostream>
2 #include<cmath>
3 using namespace std;
4 int main()
5 {
6     float n,m;
7     cin>>n;
8     m=round(n);
9     cout<<m;
10    return 0;
11 }
```

2.4



C++ Programming

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Questions

9. Write a program to read in two integers and swap their values using the bitwise XOR operator.

[find Avg](#)[Find Sum](#)[Delete](#)[Insert](#)[Reverse](#)[Diamond](#)[Pramid-Type1](#)[Pramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Sum of N](#)[Divisible](#)[Equal](#)[Max](#)[Swap](#)[Nearest](#)[Greater](#)[Pos-Neg](#)[Run](#)[Save](#)

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int a,b;
6     cin>>a>>b;
7     a=a+b;
8     b=a-b;
9     a=a-b;
10    cout<<a<<"\t"<<b;
11 }
```

2 3



C++ Programming

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Questions

II. Write a program to read in three integers and determine which one is the maximum using the ternary conditional operator.

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Sum of N

Divisible

Equal

Max

Swap

Nearest

Greater

Pos-Neg

Run

Save

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int a,b,c;
6     cin>>a>>b>>c;
7     if(a>b&&a>c)
8     {
9         cout<<a<<endl<<"a is max";
10    }
11    else if(b>c)
12    {
13        cout<<b<<endl<<"b is max";
14    }
15    else
16    {
17        cout<<c<<endl<<"c is max";
18    }
19 }
```

3
2
1



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Questions
Q2. Write a program to read in two integers and determine if they are equal or not using the ternary conditional operator.

[find Avg](#)[Find Sum](#)[Delete](#)[Insert](#)[Reverse](#)[Diamond](#)[Pramid-Type1](#)[Pramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Strong](#)[Happy](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Sum of N](#)[Divisible](#)[Equal](#)[Max](#)[Swap](#)[Nearest](#)[Greater](#)[Pos-Neg](#)[Run](#)[Save](#)

```
1 #include<iostream>
2 #include<string.h>
3 using namespace std;
4 int main()
5 {
6     char n[10],m[10];
7     cin>>n>>m;
8     string s=(n==m)?"equal":"not equal";
9     cout<<s;
10 }
```

3

4



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Questions
13. Write a program to read in an integer and determine if it is divisible by 3 or not using the ternary conditional operator.

[find Avg](#)[Find Sum](#)[Delete](#)[Insert](#)[Reverse](#)[Diamond](#)[Pramid-Type1](#)[Pramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Sum of N](#)[Divisible](#)[Equal](#)[Max](#)[Swap](#)[Nearest](#)[Greater](#)[Pos-Neg](#)[Run](#)[Save](#)

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n;
6     cin>>n;
7     if(n%3==0)
8     {
9         cout<<"divisible";
10    }
11    else
12    {
13        cout<<"not divisible";
14    }
15    return 0;
16 }
```

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Questions

Q4. Write a program to print the numbers from 1 to 10 using a for loop.

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Sum of N

Divisible

Equal

Max

Swap

Nearest

Greater

Pos-Neg

Run

Save

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int i,n;
6     cin>>n;
7     for(i=1;i<=n;i++)
8         cout<<i<<endl;
9 }
```

10



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Questions

Q6. Write a program to read in an integer and print the factorial of that number using a for loop.

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Sum of N

Divisible

Equal

Max

Swap

Nearest

Greater

Pos-Neg

Run

Save

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

5



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Questions

Q5. Write a program to read in an integer and print the multiplication table for that number using a for loop.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Prramid-Type1

Prramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

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

5



Questions

Q8. Write a program to read in an integer and print the Fibonacci series up to that number using a for loop.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

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

5



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Questions

Q7. Write a program to read in an integer and determine if it is a prime number or not using a for loop.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n,i,count=0;
6     cin>>n;
7     for(i=1;i<=n;i++)
8     {
9         if(n%i==0)
10        {
11            count++;
12        }
13    }
14    if(count==2)
15    {
16        cout<<"prime";
17    }
18    else
19    {
20        cout<<"not prime";
21    }
22    return 0;
23 }
```

5



C++ Programming

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Questions

20. Write a program to read in an integer and determine if it is a palindrome or not using a while loop.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

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

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C++ Programming

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Questions

Q9. Write a program to read in an integer and print the sum of all its digits using a while loop.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pyramid-Type1

Pyramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

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

123



C++ Programming

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Questions
2. Write a program to read in two integers and compute their greatest common divisor using a do-while loop.

[Diagonal](#)[Multiply](#)[Add](#)[Dynamic 2D](#)[Dynamic Array](#)[Merge](#)[Occurrences](#)[2nd Max](#)[find Avg](#)[Find Sum](#)[Delete](#)[Insert](#)[Reverse](#)[Diamond](#)[Pramid-Type1](#)[Pramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Strong](#)[Happy](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Run](#)[Save](#)

```

1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n1,n2,i,gcd;
6     cin>>n1>>n2;
7     do
8         for(i=1;i<=100;i++)
9         {
10             if(n1%i==0&&n2%i==0)
11                 gcd=i;
12         }
13     while(gcd>i);
14     cout<<gcd;
15 }
```

15

12



C++ Programming

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Questions

23. Write a program to read in an integer and determine if it is a perfect number or not.

[Diagonal](#)[Multiply](#)[Add](#)[Dynamic 2D](#)[Dynamic Array](#)[Merge](#)[Occurrences](#)[2nd Max](#)[find Avg](#)[Find Sum](#)[Delete](#)[Insert](#)[Reverse](#)[Diamond](#)[Pramid-Type1](#)[Pramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Strong](#)[Happy](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Run](#)[Save](#)

```

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

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C++ Programming

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Questions

22. Write a program to read in an integer and determine if it is an Armstrong number or not.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

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

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Questions

26. Write a program to read in an integer and determine if it is a Harshad number or not.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pyramid-Type1

Pyramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

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

156



C++ Programming

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192365017**Questions**

25. Write a program to read in an integer and determine if it is a happy number or not.

[Diagonal](#)[Multiply](#)[Add](#)[Dynamic 2D](#)[Dynamic Array](#)[Merge](#)[Occurrences](#)[2nd Max](#)[find Avg](#)[Find Sum](#)[Delete](#)[Insert](#)[Reverse](#)[Diamond](#)[Pramid-Type1](#)[Pramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Strong](#)[Happy](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Run](#)[Save](#)

```

1 #include<iostream>
2 using namespace std;
3 int happy(int num)
4 {
5     int rem=0,int sum=0;
6     while(num>0)
7     {
8         rem=num%10;
9         sum=sum+(rem*rem);
10        num=num/10;
11    }
12    return sum;
13 }
14 int main()
15 {
16     int n;
17     cin>>n;
18     int result=n;
19     while(result!=1)
20     {
21         result=happy(result);
22         if(result==1)
23             cout<<"happy";
24         else
25             cout<<"not";
}

```

13



Questions

24. Write a program to read in an integer and determine if it is a strong number or not.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

```

1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n,r,t,i;
6     long sum=0,fact=1;
7     //cout<<"enter a number"<<endl;
8     cin>>n;
9     for(t=n;t>0;t=t/10)
10    {
11        fact=1;
12        r=t%10;
13        for(i=1;i<=r;i++)
14        {
15            fact=fact*i;
16        }
17
18        sum=sum+fact;
19    }
20    if(sum==n)
21    {
22        cout<<"strong";
23    }
24    else
25    {
26        cout<<"not strong";
27    }
28 }
```

145



C++ Programming

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Questions

28. Write a program to read in an integer and determine if it is a buzz number or not.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pyramid-Type1

Pyramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

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

21



C++ Programming

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Questions

27. Write a program to read in an integer and determine if it is a neon number or not.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

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

9



C++ Programming

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Questions

30. Write a program to read in an integer and determine if it is a abundant number or not.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

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

12



C++ Programming

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Questions

29. Write a program to read an integer and determine if it is a narcissistic number or not.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

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

1634

Questions
32.

Write a program to print the following pattern using nested for loops:

1
22
333
4444
55555

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int i,j,s,n;
6     cin>>n;
7     for(i=0;i<n;i++)
8     {
9         for(s=0;s<n-i;s++)
10        {
11            cout<<"";
12        }
13        for(j=0;j<i;j++)
14        {
15            cout<<i;
16        }
17        cout<<endl;
18    }
19 }
```

6



C++ Programming

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192365017Questions
3L

Write a program to print the following pattern using nested for loops:

```
*  
**  
***  
****  
*****
```

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

```
1 #include<iostream>  
2 using namespace std;  
3 int main()  
4 {  
5     int i,j,s,n;  
6     //cout<<"enter rows"<<endl;  
7     cin>>n;  
8     for(i=0;i<n;i++)  
9     {  
10         for(s=0;s<n-i;s++)  
11         {  
12             cout<<" ";  
13         }  
14         for(j=0;j<i;j++)  
15         {  
16             cout<<"*";  
17             cout<<endl;  
18         }  
19     }  
20     return 0;  
21 }
```

5



C++ Programming

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35.

Write a program to print the following pattern using nested for loops:

```
1
232
34543
4567654
567898765
```

[Diagonal](#)[Multiply](#)[Add](#)[Dynamic 2D](#)[Dynamic Array](#)[Merge](#)[Occurrences](#)[2nd Max](#)[find Avg](#)[Find Sum](#)[Delete](#)[Insert](#)[Reverse](#)[Diamond](#)[Pramid-Type1](#)[Pramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Strong](#)[Happy](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Run](#)[Save](#)

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int i,j,s,n,c=0;
6     cin>>n;
7     for(i=0;i<n;i++)
8     {
9         for(s=0;s<n-i;s++)
10        {
11            cout<<" ";
12        }
13        for(j=1;j<=i;j++)
14        {
15            c++;
16            cout<<c;
17        }
18        c--;
19        for(j=1;j<i;j++)
20        {
21            cout<<c;
22            c--;
23        }
24        cout<<endl;
25        c++;
26    }
27 }
```

6



C++ Programming

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34.

Write a program to print the following pattern using nested for loops:

```
1
121
12321
1234321
123454321
```

[Diagonal](#)[Multiply](#)[Add](#)[Dynamic 2D](#)[Dynamic Array](#)[Merge](#)[Occurrences](#)[2nd Max](#)[find Avg](#)[Find Sum](#)[Delete](#)[Insert](#)[Reverse](#)[Diamond](#)[Pramid-Type1](#)[Pramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Strong](#)[Happy](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Run](#)[Save](#)

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int i,j,s,n,c=0;
6     cin>>n;
7     for(i=0;i<n;i++)
8     {
9         for(s=0;s<n-i;s++)
10        {
11            cout<<" ";
12        }
13        c++;
14        for(j=1;j<=i;j++)
15        {
16            cout<< j;
17        }
18        for(j=i-1;j>=1;j--)
19        {
20            c--;
21            cout<< j;
22        }
23        cout<<endl;
24    }
25    return 0;
26 }
```

5

Questions
33.

Write a program to print the following pattern using nested for loops:

```
*  
***  
*****  
*****  
*****  
*****  
***  
*  
*
```

[Diagonal](#)[Multiply](#)[Add](#)[Dynamic 2D](#)[Dynamic Array](#)[Merge](#)[Occurrences](#)[2nd Max](#)[find Avg](#)[Find Sum](#)[Delete](#)[Insert](#)[Reverse](#)[Diamond](#)[Pramid-Type1](#)[Pramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Strong](#)[Happy](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Run](#)[Save](#)

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int i,j,s,n;
6     cin>>n;
7     for(i=0;i<n;i++)
8     {
9         for(s=0;s<n-i;s++)
10        {
11            cout<<" ";
12        }
13        for(j=0;j<i;j++)
14        {
15            cout<<" *";
16        }
17        cout<<endl;
18    }
19    for(i=0;i<n;i++)
20    {
21        for(s=0;s<i;s++)
22        {
23            cout<<" ";
24        }
25        for(j=0;j<n-i;j++)
26        {
27            cout<<" *";
28        }
29        cout<<endl;
30    }
31    return 0;
32 }
```

5



Questions

Q1. Write a C++ program to reverse the elements of an array.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

```

1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n=5,a[n]={1,2,3,4,5};
6     int temp,i;
7     cin>>n;
8     for(i=0;i<n/2;i++)
9     {
10         temp=a[i];
11         a[i]=a[n-i-1];
12         a[n-i-1]=temp;
13     }
14     for(i=0;i<n;i++)
15     {
16         cout<<a[i];
17     }
18 }
```

Your INPUT go's here! Give only values. do not give like
a=10



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Questions

Q102. Write a C++ program to insert an element into an array at a specific position.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

```
1 #include<iostream>
2 using namespace std;
3 main()
4 {
5     int a[10],n;
6     cin>>n;
7     int i,k,pos;
8     for(i=0;i<n;i++)
9     {
10         cin>>a[i];
11     }
12     cin>>k;
13     cin>>pos;
14     for(i=n;i>=pos;i--)
15     {
16         a[i+1]=a[i];
17     }
18     a[pos]=k;
19
20     for(i=0;i<=n;i++)
21     {
22         cout<<a[i]<<"\t";
23     }
24 }
```

```
5
1 2 3 4 5
88
2
```



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Questions

103. Write a C++ program to delete an element from an array at a specific position.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n,i,a[n],pos;
6     cin>>n>>pos;
7     for(i=0;i<=n;i++)
8     {
9         cin>>a[i];
10    }
11    for(i=pos;i<=n;i++)
12    {
13        a[i]=a[i+1];
14    }
15    for(i=0;i<=n-2;i++)
16    {
17        cout<<"\t" <<a[i];
18    }
19 }
```

5 2
1 2 3 4 5



Questions

104. Write a C++ program to find the sum of elements in an array.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

```

1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n=5,a[n]={2,4,6,8,10};
6     int i,sum=0;
7     cin>>n;
8     for(i=0;i<n;i++)
9     {
10         sum=sum+a[i];
11     }
12     cout<<sum;
13 }
```

Your INPUT go's here! Give only values. do not give like
a=10



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Questions

105. Write a C++ program to find the average of elements in an array.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

```

1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n=5,a[5]={1,2,3,4,5};
6     int i,sum=0;
7     float avg;
8     cin>>n;
9     for(i=0;i<n;i++)
10    {
11        sum=sum+a[i];
12    }
13    cout<<sum<<endl;
14    avg=sum/5;
15    cout<<avg;
16 }
```

Your INPUT go's here! Give only values. do not give like a=10



C++ Programming

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Questions

106. Write a C++ program to find the second largest element in an array.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Strong

Happy

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

```

1#include <iostream>
2using namespace std;
3int secondLargest(int arr[], int n)
4{
5    int first = 0, second = -1;
6    for (int i = 1; i < n; i++)
7    {
8        if (arr[i] > arr[first])
9        {
10            second = first;
11            first = i;
12        }
13        else if (arr[i] < arr[first])
14        {
15            if (second == -1 || arr[second] < arr[i])
16                second = i;
17        }
18    }
19    return second;
20}
21
22int main()
23{
24    int arr[] = { 12, 35, 1, 10, 34, 1 };
25    int index = secondLargest(arr, sizeof(arr)/sizeof(a
26    if (index == -1)
27        cout <<"Second Largest didn't exist";
28    else
29        cout<<"Second largest element:" <<arr[index];
30    return 0;
31}

```

Your INPUT go's here! Give only values. do not give like
a=10



C++ Programming

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Questions

107. Write a C++ program to find the number of occurrences of a value in an array.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n,num,i,a[n];
6     cin>>n>>num;
7     for(i=0;i<=n;i++)
8     {
9         cin>>a[i];
10    }
11    int count=0;
12    for(i=0;i<=n;i++)
13    {
14        if(a[i]==num)
15            count++;
16    }
17    cout<<count;
18 }
```

```
7
10
10
20
30
10
40
10
```



Questions

108. Write a C++ program to merge two arrays into a single array.

[Diagonal](#)[Multiply](#)[Add](#)[Dynamic 2D](#)[Dynamic Array](#)[Merge](#)[Occurrences](#)[2nd Max](#)[find Avg](#)[Find Sum](#)[Delete](#)[Insert](#)[Reverse](#)[Diamond](#)[Pramid-Type1](#)[Pramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Strong](#)[Happy](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Run](#)[Save](#)

```

1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n,m,i,j,a[n],b[m];
6     cin>>n>>m;
7     for(i=0;i<n;i++)
8     {
9         cin>>a[i];
10    }
11    for(i=0;i<m;i++)
12    {
13        cin>>b[i];
14    }
15    int res=n+m;
16    int c[res];
17    for(i=0;i<n;i++)
18    {
19        c[i]=a[i];
20    }
21    for(i=0,j=n;j<res&&i<m;i++,j++)
22    {
23        c[j]=b[i];
24    }
25    for(i=0;i<res;i++)
26    {
27        cout<<"\t"<<c[i];
28    }
29 }
```

```

5
5
1 2 3 4 5
6 7 8 9 10

```



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Questions

Q109. Write a C++ program to create a dynamic array using pointers and display its values.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

Pramid-Type2

RT-Pattern

RT-Pattern

Narcissistic

Abundant

Neon

Buzz

Harshad

Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

```

1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int *p=new int[5];
6     int i;
7     for(i=0;i<=5;i++)
8     {
9         p[i]=10*(i+1);
10    }
11    cout<<p<<endl;
12    cout<<p+1<<endl;
13    cout<<(p+1)<<endl;
14    cout<<2*p<<endl;
15    cout<<p[2]<<endl;
16    *p++;
17    cout<<p;
18    return 0;
19 }
```

Your INPUT go's here! Give only values. do not give like
a=10



172.17.54.47/cpp_prog.



C++ Programming

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Questions
 III. Write a C++ program to add 2 matrices.

[Diagonal](#)[Multiply](#)[Add](#)[Dynamic 2D](#)[Dynamic Array](#)[Merge](#)[Occurrences](#)[2nd Max](#)[find Avg](#)[Find Sum](#)[Delete](#)[Insert](#)[Reverse](#)[Diamond](#)[Pramid-Type1](#)[Pramid-Type2](#)[RT-Pattern](#)[RT-Pattern](#)[Narcissistic](#)[Abundant](#)[Neon](#)[Buzz](#)[Strong](#)[Happy](#)[Harshad](#)[Armstrong](#)[Perfect](#)[GCD](#)[Sum of All](#)[Palindrome](#)[Prime](#)[Fibonacci](#)[Table](#)[Factorial](#)[Run](#)[Save](#)

```

1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n,m,i,j,a[10][10],b[10][10],c[10][10];
6     cin>>m>>n;
7     for(i=0;i<m;i++)
8     {
9         for(j=0;j<n;j++)
10        {
11            cin>>a[i][j];
12        }
13    }
14    for(i=0;i<m;i++)
15    {
16        for(j=0;j<n;j++)
17        {
18            cin>>b[i][j];
19        }
20    }
21    for(i=0;i<m;i++)
22    {
23        for(j=0;j<n;j++)
24        {
25            c[i][j]=a[i][j]+b[i][j];
26        }
27    }
28    for(i=0;i<m;i++)
29    {
30        for(j=0;j<n;j++)
31        {
32            cout<<"\t"<<c[i][j];
33        }
34        cout<<endl;
35    }
36 }
```

```

2
2
1 2 3 4
1 2 3 4

```



C++ Programming

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Questions
II2. Write a C++ program to multiply 2 matrices.

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

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Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

```

1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int n,m,i,j,a[10][10],b[10][10],c[10][10],k,sum=0;
6     cin>>m>>n;
7     for(i=0;i<m;i++)
8     {
9         for(j=0;j<n;j++)
10        {
11            cin>>a[i][j];
12        }
13    }
14    for(i=0;i<m;i++)
15    {
16        for(j=0;j<n;j++)
17        {
18            cin>>b[i][j];
19        }
20    }
21    for(i=0;i<m;i++)
22    {
23        for(j=0;j<n;j++)
24        {
25            c[i][j]=0;
26            for(k=0;k<n;k++)
27            {
28                c[i][j]=c[i][j]+a[i][k]*b[k][j];
29            }
30        }
31    }
32    for(i=0;i<m;i++)
33    {
34        for(j=0;j<n;j++)
35        {
36            cout<<"\t"<<c[i][j];
37        }
38    }
39 }
40 return 0;
41 }
```

```

2
2
1 2 3 4
1 2 3 4

```



Questions

II3. Write a C++ program find sum of diagonals of the matrices

Diagonal

Multiply

Add

Dynamic 2D

Dynamic Array

Merge

Occurrences

2nd Max

find Avg

Find Sum

Delete

Insert

Reverse

Diamond

Pramid-Type1

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Armstrong

Perfect

GCD

Sum of All

Palindrome

Prime

Fibonacci

Table

Factorial

Run

Save

```

1 #include<iostream>
2 using namespace std;
3 main()
4 {
5     int a[10][10];
6     int n,m,i,j,sum=0;
7     cin>>m>>n;
8     for(i=0;i<m;i++)
9     {
10         for(j=0;j<n;j++)
11         {
12             cin>>a[i][j];
13         }
14     }
15     for(i=0;i<m;i++)
16     {
17         sum=sum+a[i][i];
18     }
19     cout<<sum;
20     return 0;
21 }
```

```

3
3
1 2 3 4 5 6 7 8 9
```