

Online C Compiler

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Programiz C Online Compiler

Interactive C Course

main.c

Run

Output

Clear

```
1 #include <stdio.h>
2 int main()
3 {
4     int array[100], search, c, n;
5
6     printf("Enter number of elements in array\n");
7     scanf("%d", &n);
8
9     printf("Enter %d integer(s)\n", n);
10
11     for (c = 0; c < n; c++)
12         scanf("%d", &array[c]);
13
14     printf("Enter a number to search\n");
15     scanf("%d", &search);
16
17     for (c = 0; c < n; c++)
18     {
19         if (array[c] == search) /* If required element is found */
20         {
21             printf("%d is present at location %d.\n", search, c+1);
22             break;
23         }
24     }
```

/tmp/f5nk0CJG57.o  
Enter number of elements in array  
77  
Enter 77 integer(s)  
7,1,2,  
  
Enter a number to search  
0 is present at location 2.

34°C Sunny

Search

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main.c

```
6 printf("Enter number of elements in array\n");
7 scanf("%d", &n);
8
9 printf("Enter %d integer(s)\n", n);
10
11 for (c = 0; c < n; c++)
12     scanf("%d", &array[c]);
13
14 printf("Enter a number to search\n");
15 scanf("%d", &search);
16
17 for (c = 0; c < n; c++)
18 {
19     if (array[c] == search) /* If required element is found */
20     {
21         printf("%d is present at location %d.\n", search, c+1);
22         break;
23     }
24 }
25 if (c == n)
26     printf("%d isn't present in the array.\n", search);
27
28 return 0;
29 }
```

Run

Output

Clear

/tmp/f5nk0CJG57.o

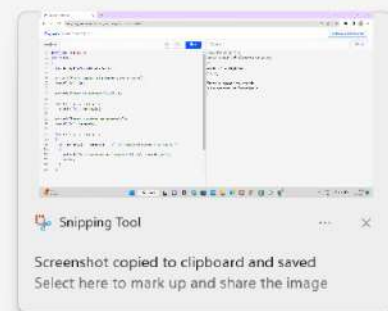
Enter number of elements in array  
77  
Enter 77 integer(s)  
7,1,2,  
  
Enter a number to search  
0 is present at location 2.

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Very high UV

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Clear

```
/tmp/f5nk0CJG57.o
0
dash: 2: 0: not found
```

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Run

Output

Clear

```
1- /*
2-  * C program to find the sum of cos(x) series
3-  */
4- #include <stdio.h>
5- #include <math.h>
6-
7- void main()
8- {
9-     int n, x1, i, j;
10-    float x, sign, cosx, fact;
11-
12-    printf("Enter the number of the terms in a series\n");
13-    scanf("%d", &n);
14-    printf("Enter the value of x(in degrees)\n");
15-    scanf("%f", &x);
16-    x1 = x;
17-    /* Degrees to radians */
18-    x = x * (3.142 / 180.0);
19-    cosx = 1;
20-    sign = -1;
21-    for (i = 2; i <= n; i = i + 2)
22-    {
23-        fact = 1;
24-        for (j = 1; j <= i; j++)
```

```
/tmp/f5nk0CJG57.o
Enter the number of the terms in a series
60
Enter the value of x(in degrees)
78
Sum of the cosine series = 0.21
The value of cos(78) using library function = 0.207739
```

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main.c

Run

```
11
12 printf("Enter the number of the terms in a series\n");
13 scanf("%d", &n);
14 printf("Enter the value of x(in degrees)\n");
15 scanf("%f", &x);
16 x1 = x;
17 /* Degrees to radians */
18 x = x * (3.142 / 180.0);
19 cosx = 1;
20 sign = -1;
21 for (i = 2; i <= n; i = i + 2)
22 {
23     fact = 1;
24     for (j = 1; j <= i; j++)
25     {
26         fact = fact * j;
27     }
28     cosx = cosx + (pow(x, i) / fact) * sign;
29     sign = sign * (-1);
30 }
31 printf("Sum of the cosine series = %7.2f\n", cosx);
32 printf("The value of cos(%d) using library function = %f\n", x1,
33 cos(x));
34 }
```

Output

Clear

```
/tmp/f5nk0CJG57.o
Enter the number of the terms in a series
60
Enter the value of x(in degrees)
78
Sum of the cosine series =    0.21
The value of cos(78) using library function = 0.207739
```

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```
14 scanf("%f",&n);
15 series_value=series(x,n);
16 printf("\nValue of series sin (%.2f) is: %f\n",x,series_value);
17 return 0;
18 }
19
20 int series(float x,float n)
21 {
22 {
23
24     int i,sum=0,sign=-1;
25     int j,fact=1,p=1;
26     for (i=1; i<=(2*n)-1; i+=2)
27     {
28         for (j=1; j<=i; j++)
29         {
30             p=p*x;
31             fact=fact*j;
32         }
33         sign=-1*sign;
34         sum=sum + sign*p/fact;
35     }
36     return (sum);
37 }
```

/tmp/f5nk0CJG57.o

Enter the value of x: 100

Enter the value of n: 1000

Floating point exception

Breaking news

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main.c

Run

Output

Clear

```
1 #include<stdio.h>
2 void main()
3 {
4     int maximum(int a[],int n);
5     int max,i,n;
6     int a[50];
7     printf("Enter n number:");
8     scanf("%d",&n);
9     printf("Enter the numbers:");
10    for(i=0;i<n;i++)
11        scanf("%d",&a[i]);
12    max=maximum(a,n);
13    printf("The largest number is %d",max);
14 }
15 int maximum(int a[],int n)
16 {
17     int i,m=0;
18     for(i=0;i<n;i++)
19     {
20         if(a[i]>m)
21             m=a[i];
22     }
23     return m;
24 }
```

```
/tmp/f5nk0CJG57.o
Enter n number:40
Enter the numbers:1,2
The largest number is 1
```

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main.c

Run

```
1 #include <stdio.h>
2 int main()
3 {
4     int num1, num2;
5     // Ask user to enter the two numbers
6     printf("Please Enter Two different values\n");
7     // Read two numbers from the user
8     scanf("%d %d", &num1, &num2);
9     if(num1 > num2)
10 {
11     printf("%d is Largest\n", num1);
12 }
13 else if (num2 > num1)
14 {
15     printf("%d is Largest\n", num2);
16 }
17 else
18 {
19     printf("Both are Equal\n");
20 }
21 return 0;
22 }
```

Output

Clear

```
/tmp/z0RXeSJjMM.o
Please Enter Two different values
70
80
```

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Sunny

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Windows Taskbar Icons

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Interactive C Course

main.c

Run

Output

Clear

```
1 #include <stdio.h>
2
3 int main()
4 {
5     //variable declarations
6     int a,b;
7
8     //Input values
9     printf("Enter the value of a: ");
10    scanf("%d",&a);
11    printf("Enter the value of b: ");
12    scanf("%d",&b);
13
14    //Numbers before swapping
15    printf("Before swapping... a: %d, b: %d\n",a,b);
16
17    //swapping numbers
18    a = a+b; //step 1
19    b = a-b; //step 2
20    a = a-b; //step 3
21
22    //Numbers after swapping
23    printf("After swapping... a: %d, b: %d\n",a,b);
24
25    return 0;
}
```

/tmp/z0RXeSJjMM.o

Enter the value of a: 55  
Enter the value of b: 50  
Before swapping... a: 55, b: 50  
After swapping... a: 50, b: 55

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main.c

Run

Output

Clear

```
1 #include<stdio.h>
2
3 int main() {
4     int x, y, temp;
5     printf("Enter the value of x and y: ");
6     scanf("%d %d", &x, &y);
7     printf("Before swapping x=%d, y=%d ", x, y);
8
9     /*Swapping logic */
10    temp = x;
11    x = y;
12    y = temp;
13    printf("After swapping x=%d, b=%d", x, y);
14    return 0;
15 }
```

/tmp/z0RXeSJjMM.o  
Enter the value of x and y: 50

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main.c

Run

Output

Clear

```
1 #include<stdio.h>
2 int main()
3 {
4     int num;
5     printf("Enter number:");
6     scanf("%d", &num);
7     if(num>0)
8         printf("The number %d is Positive",num);
9     else if(num==0)
10        printf("The number %d is Negative",num);
11    return 0;
12 }
```


```
/tmp/z0RXeSJjMM.o
Enter number:66
The number 66 is Positive
```

JS

php

Breaking news

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main.c

Run

Output

Clear

```
1 #include <stdio.h>
2 int main() {
3     int num;
4     printf("Enter an integer: ");
5     scanf("%d", &num);
6
7     // true if num is perfectly divisible by 2
8     if(num % 2 == 0)
9         printf("%d is even.", num);
10    else
11        printf("%d is odd.", num);
12
13    return 0;
14 }
```

```
/tmp/z0RXeSJjMM.o
Enter an integer: 80
80 is even.
```

JS

php

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QUEDES + CTRG Y TONDA JR.

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main.c

Run

Output

Clear

```
1 #include <stdio.h>
2
3 int main() {
4
5     int n, reverse = 0, remainder;
6
7     printf("Enter an integer: ");
8     scanf("%d", &n);
9
10    while (n != 0) {
11        remainder = n % 10;
12        reverse = reverse * 10 + remainder;
13        n /= 10;
14    }
15
16    printf("Reversed number = %d", reverse);
17
18    return 0;
19 }
```

```
/tmp/rGthuug4zp.o
Enter an integer: 2
Reversed number = 2
```

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IN

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main.c

Run

Output

Clear

```
1 #include <stdio.h>
2
3 int main() {
4
5     int n, reverse = 0, remainder;
6
7     printf("Enter an integer: ");
8     scanf("%d", &n);
9
10    while (n != 0) {
11        remainder = n % 10;
12        reverse = reverse * 10 + remainder;
13        n /= 10;
14    }
15
16    printf("Reversed number = %d", reverse);
17
18    return 0;
19 }
```

```
/tmp/rGthuug4zp.o
Enter an integer: 2
Reversed number = 2
```

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main.c

Run

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

Output

Clear

```
/tmp/4gz6DbGvMt.o
Enter a number:50
Sum is=5
```

JS

php

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main.c

Run

Output

Clear

```
1 #include<stdio.h>
2
3 int main()
4 {
5     int n, i;
6     float sum = 0, avg, num;
7
8     printf("Enter number of elements: ");
9     scanf("%d", &n);
10    printf("\nEnter %d elements\n", n);
11    for(i = 0; i < n; i++)
12    {
13        scanf("%f", &num);
14        sum = sum + num;
15    }
16    avg = sum / n;
17    printf("\nAverage of numbers is %f", avg);
18
19    return 0;
20 }
```

```
/tmp/4gz6DbGvMt.o
Enter number of elements: 66
Enter 66 elements
```

JS

php

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main.c

Run

```
1 #include <stdio.h>
2 int main()
3 {
4     int num, remainder, total=0, temp;
5     printf("Enter the number=");
6     scanf("%d", &num);
7     temp=num;
8     {
9         remainder=num%10;
10        total=total+(remainder*remainder*remainder);
11        num=num/10;
12    }
13    if(temp==total)
14        printf("This number is Armstrong number");
15    else
16        printf("This number is not Armstrong number");
17    return 0;
18 }
```

Output

Clear

```
/tmp/4gz6DbGvMt.o
Enter the number=80
This number is not Armstrong number
```

JS

php

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Run

Output

Clear

```
1 #include<stdio.h>
2 int main()
3 {
4     int i,fact=1,number;
5     printf("Enter a number: ");
6     scanf("%d",&number);
7     for(i=1;i<=number;i++){
8         fact=fact*i;
9     }
10    printf("Factorial of %d is: %d",number,fact);
11    return 0;
12 }
```

```
/tmp/4gz6DbGvMt.o
Enter a number:12
Factorial of 2 is: 2
```

JS

php

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main.c

Run

Output

Clear

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,sum;
5     printf("enter the value of n:");
6     scanf("%d",&n);
7     sum=(n*n)*((n+1)*(n+1))/4;
8     printf("sum of square of %d natural numbers=%d",n,sum);
9 }
```

```
/tmp/4gz6DbGvMt.o
enter the value of n:
```

JS

php

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main.c

Run

Output

Clear

```
1 #include <stdio.h>
2 int main() {
3     int n = 8;
4     int sum = 0;
5     for (int i = 1; i <= n; i++)
6         sum += (2*i - 1) * (2*i - 1);
7     printf("The sum of square of first %d odd numbers is %d", n, sum);
8     return 0;
9 }
```

/tmp/4gz6DbGvMt.o  
The sum of square of first 8 odd numbers is 680