

Programiz

C Online Compiler

Interactive C Course

main.c

Run

```
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 }
```

Output

Clear

```
/tmp/77SXQaLwZE.o
Enter a number: 5
Factorial of 5 is: 120
```

JS

GO

PHP

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```
main.c  
  
1 #include<stdio.h>  
2 int main()  
3 {  
4 int n,r,sum=0,temp;  
5 printf("enter the number=");  
6 scanf("%d",&n);  
7 temp=n;  
8 while(n>0)  
9 {  
10 r=n%10;  
11 sum=sum+(r*r*r);  
12 n=n/10;  
13 }  
14 if(temp==sum)  
15 printf("armstrong number ");  
16 else  
17 printf("not armstrong number");  
18 return 0;  
19 }
```

Run

Output

Clear

```
/tmp/77SXQaLwZE.o  
enter the number=153  
armstrong number |
```

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11:20

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```
main.c
1 #include<stdio.h>
2 int main(){
3 int n,i,m=0,flag=0;
4 printf("Enter the number to check prime:");
5 scanf("%d",&n);
6 m=n/2;
7 for(i=2;i<=m;i++)
8 {
9 if(n%i==0)
10 {
11 printf("Number is not prime");
12 flag=1;
13 break;
14 }
15 }
16 if(flag==0)
17 printf("Number is prime");
18 return 0;
19 }
```

Run

Output

Clear

```
/tmp/77SXQaLwZE.o
Enter the number to check prime:5
Number is prime
```

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main.c



Run

Output

Clear

```
1 #include <stdio.h>
2 int main()
3 {
4     int n1, n2, i, gcd;
5
6     printf("Enter two integers: ");
7     scanf("%d %d", &n1, &n2);
8
9     for(i=1; i <= n1 && i <= n2; ++i)
10    {
11        if(n1%i==0 && n2%i==0)
12            gcd = i;
13    }
14
15    printf("G.C.D of %d and %d is %d", n1, n2, gcd);
16
17
18    return 0;
19 }
```

```
/tmp/77SXQaLwZE.o
Enter two integers: 12 6
G.C.D of 12 and 6 is 6
```

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Online C Compiler

C Program to Find Largest Element

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main.c

Run

```
1 #include <stdio.h>
2 int main() {
3     int n;
4     double arr[100];
5     printf("Enter the number of elements (1 to 100): ");
6     scanf("%d", &n);
7
8     for (int i = 0; i < n; ++i) {
9         printf("Enter number%d: ", i + 1);
10        scanf("%lf", &arr[i]);
11    }
12
13    for (int i = 1; i < n; ++i) {
14        if (arr[0] < arr[i]) {
15            arr[0] = arr[i];
16        }
17    }
18
19    printf("Largest element = %.2lf", arr[0]);
20
21    return 0;
22 }
```

Output

Clear

/tmp/77SXQaLwZE.o
Enter the number of elements (1 to 100): 3
Enter number1: 10
Enter number2: 45
Enter number3: 36
Largest element = 45.00

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Fibonacci Series in C - javatpoint

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main.c

Run

Output

Clear

```
1 #include<stdio.h>
2 void printFibonacci(int n){
3     static int n1=0,n2=1,n3;
4     if(n>0){
5         n3 = n1 + n2;
6         n1 = n2;
7         n2 = n3;
8         printf("%d ",n3);
9         printFibonacci(n-1);
10    }
11 }
12 int main(){
13     int n;
14     printf("Enter the number of elements: ");
15     scanf("%d",&n);
16     printf("Fibonacci Series: ");
17     printf("%d %d ",0,1);
18     printFibonacci(n-2);
19     return 0;
20 }
21
```

```
/tmp/7S2fo7AV00.o
Enter the number of elements: 5
Fibonacci Series: 0 1 1 2 3
```

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main.c

```

1 #include <stdio.h>
2
3 void swap(int *xp, int *yp)
4 {
5     int temp = *xp;
6     *xp = *yp;
7     *yp = temp;
8 }
9
10 void selectionSort(int arr[], int n)
11 {
12     int i, j, min_idx;
13
14     // One by one move boundary of unsorted subarray
15     for (i = 0; i < n-1; i++)
16     {
17         // Find the minimum element in unsorted array
18         min_idx = i;
19         for (j = i+1; j < n; j++)
20             if (arr[j] < arr[min_idx])
21                 min_idx = j;
22         if (min_idx != i)
23             swap(&arr[min_idx], &arr[i]);
24     }
25 }
26
27 void printArray(int arr[], int size)
28 {
29     int i;
30     for (i=0; i < size; i++)
31         printf("%d ", arr[i]);
32     printf("\n");
33 }
34 int main()
35 {
36     int arr[] = {64, 25, 12, 22, 11};
37     int n = sizeof(arr)/sizeof(arr[0]);
38     selectionSort(arr, n);
39     printf("Sorted array \n");
40     printArray(arr, n);
41     return 0;

```

Run

Output

```

/tmp/77SKQqLW2E.o
Sorted array
11 12 22 25 64

```

Clear