

OnlineGDB

online compiler and debugger for c/c++

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Language C

main.c

```
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2
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4  GDB online is an online compiler and debugger tool for C, C++, Python, Java, PHP, Ruby, Perl,
5  C#, OCaml, VB, Swift, Pascal, Fortran, Haskell, Objective-C, Assembly, HTML, CSS, JS, SQLite, Prolog.
6  Code, Compile, Run and Debug online from anywhere in world.
7
8  *****/
9  #include <stdio.h>
10
11 int main()
12 {
13     printf("Hello World");
14
15     return 0;
16 }
17
```

input

```
Hello World
...Program finished with exit code 0
Press ENTER to exit console.
```

Type here to search

iPhone 17 series batt...

3:26 PM 9/9/2025

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main.c

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```
1- /******  
2  
3 Welcome to GDB Online.  
4 GDB online is an online compiler and debugger tool for C, C++, Python, Java, PHP, Ruby, Perl,  
5 C#, OCaml, VB, Swift, Pascal, Fortran, Haskell, Objective-C, Assembly, HTML, CSS, JS, SQLite, Prolog.  
6 Code, Compile, Run and Debug online from anywhere in world.  
7  
8 *****/  
9 #include <stdio.h>  
10  
11 int main()  
12 {  
13     int a,b;  
14     printf("enter the no");  
15     scanf("%d%d",&a,&b);  
16     int temp = a;  
17     a=b;  
18     b=temp;  
19     printf(" %d%d",a,b);  
20  
21     return 0;  
22 }  
23
```

input

enter the no 10 20
2010
...Program finished with exit code 0
Press ENTER to exit console.

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2
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6  Code, Compile, Run and Debug online from anywhere in world.
7
8  *****/
9  #include <stdio.h>
10
11 int main()
12 {
13     int num;
14     printf("enter the number");
15     scanf("%d",&num);
16     if(num%2==0)
17         printf("number is even");
18     else
19         printf("num is odd");
20
21     return 0;
22 }
```

input

```
enter the number10
number is even

...Program finished with exit code 0
Press ENTER to exit console.
```

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4 Code, Compile, Run and Debug online from anywhere in world.
5
6 *****/
7 #include <stdio.h>
8
9 int main()
10 {
11     int a,b,c;
12     printf("enter the three number");
13     scanf("%d%d%d",&a,&b,&c);
14     if(a>b & a>c)
15         printf("a is greatest");
16     else if(b>a & b>c)
17         printf("b is greatest");
18     else
19         printf("c is greatest");
20
21     return 0;
22 }
23
24
25
```

input

enter the three number10 20 30
c is greatest
...Program finished with exit code 0
Press ENTER to exit console.

Type here to search

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6 Code, Compile, Run and Debug online from anywhere in world.
7
8 *****/
9 #include <stdio.h>
10
11 int main()
12 {
13     int n;
14     printf("enter the number");
15     scanf("%d",&n);
16     int fact=1;
17     for(int i=1;i<=n;i++)
18     {
19         fact = fact*i;
20     }
21     printf("%d",fact);
22
23
24     return 0;
```

input

enter the number5
120

...Program finished with exit code 0
Press ENTER to exit console.

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Language C

main.c

```
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2
3 *****/
4 #include <stdio.h>
5
6 int getFib(int n) {
7     if (n <= 1) {
8         return n;
9     }
10    return getFib(n - 1) + getFib(n - 2);
11 }
12
13 int main() {
14     int n;
15     printf("Enter the number of terms: ");
16     scanf("%d", &n);
17     printf("Fibonacci Series: ");
18     for (int i = 0; i < n; i++)
19     {
20         printf("%d ", getFib(i));
21     }
22     printf("\n");
23     return 0;
24 }
```

input

Enter the number of terms: 5
Fibonacci Series: 0 1 1 2 3

...Program finished with exit code 0
Press ENTER to exit console.

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main.c

```
1 Code, compile, run and debug online from anywhere in world.
2
3 *****/
4 #include <stdio.h>
5
6 int main()
7 {
8     int num;
9     printf("enter the number");
10    scanf("%d",&num);
11    int r,rev=0;
12    while(num!=0)
13    {
14        r = num%10;
15        rev=rev*10+r;
16        num/=10;
17    }
18    printf("%d",rev);
19
20    return 0;
21 }
```

input

enter the number1234
4321
...Program finished with exit code 0
Press ENTER to exit console.

Type here to search

213
124
111

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Language C

main.c

```
10
11 int main()
12 {
13     int num;
14     int res = num;
15     printf("enter the number");
16     scanf("%d",&num);
17     int r,rev=0;
18     while(num!=0)
19     {
20         r = num%10;
21         rev=rev*10+r;
22         num/=10;
23     }
24
25     if(res==rev)
26         printf("number is palindrome");
27     else
28         printf("number is not palindrome");
29
30
31     return 0;
32 }
```

input

```
enter the number:1234
number is not palindrome

...Program finished with exit code 0
Press ENTER to exit console.
```

Type here to search

213

121

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VS Code

Terminal

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6 Code, Compile, Run and Debug online from anywhere in world.
7
8 *****/
9 #include <stdio.h>
10
11 int main()
12 {
13     int count=0,num;
14     printf("enter the number");
15     scanf("%d",&num);
16     while(num!=0)
17     {
18         num/=10;
19         count++;
20     }
21     printf("%d",count);
22
23     return 0;

```

input

enter the number123

3

...Program finished with exit code 0

Press ENTER to exit console.

Type here to search

21 3
1 2
1 1

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6  Code, Compile, Run and Debug online from anywhere in world.
7
8  *****/
9  #include <stdio.h>
10
11 int main()
12 {
13     int sum =0,num,rem;
14     printf("enter the number");
15     scanf("%d",&num);
16     while(num!=0)
17     {
18         rem = num%10;
19         sum+=rem;
20         num/=10;
21     }
22     printf("%d",sum);
23 }
```

input

enter the number123
6
...Program finished with exit code 0
Press ENTER to exit console.

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21 3
1 2
1 1

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Language C

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```
9 #include <stdio.h>
10 #include <stdbool.h>
11
12 bool isPrime(int n) {
13     if (n <= 1)
14         return false;
15     for (int i = 2; i < n; i++)
16         if (n % i == 0)
17             return false;
18
19     return true;
20 }
21
22 int main() {
23     int n;
24     printf("enter the number");
25     scanf("%d",&n);
26     if( isPrime(n))
27         printf("%s","true");
28     else
29         printf("%s","false");
30     return 0;
31 }
```

input

```
enter the number7
true

...Program finished with exit code 0
Press ENTER to exit console.
```

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213

121

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7
8 *****/
9 #include <stdio.h>
10 int main()
11 {
12
13     int a[10]={2,5,8,9,3,1};
14     int res = a[0];
15     for(int i=1;i<=10;i++)
16     {
17         if(a[i]>res)
18         {
19             res = a[i];
20         }
21     }
22     printf("%d",res);
23 }
```

input

9

...Program finished with exit code 0
Press ENTER to exit console.

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main.c

```
1 *****/
2 #include <stdio.h>
3 #include <string.h>
4 #include <ctype.h>
5
6 int main()
7 {
8     char str[100];
9     int i, count = 0;
10
11     printf("Enter a string: ");
12     scanf("%s", str);
13
14     for (i = 0; str[i] != '\0'; i++) {
15         char ch = tolower(str[i]);
16         if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u') {
17             count++;
18         }
19     }
20
21     printf("Total vowels: %d\n", count);
22
23     return 0;
24 }
```

input

Enter a string: vijay
Total vowels: 2

...Program finished with exit code 0
Press ENTER to exit console.

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main.c

```
10
11 int main() {
12     int units;
13     float bill = 0;
14
15     printf("Enter total units consumed: ");
16     scanf("%d", &units);
17
18     if (units <= 100) {
19         bill = units * 5;
20     }
21     else if (units <= 200) {
22         bill = (100 * 5) + (units - 100) * 7;
23     }
24     else {
25         bill = (100 * 5) + (100 * 7) + (units - 200) * 10;
26     }
27
28     printf("Total Electricity Bill: %.2f\n", bill);
29
30     return 0;
31 }
32
```

input

Enter total units consumed: 400
Total Electricity Bill: 3200.00
...Program finished with exit code 0
Press ENTER to exit console.

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main.c

```
1 // Factorial using Recursion
2 #include <stdio.h>
3
4 long long fact(int n) {
5     if (n == 0 || n == 1) {
6         return 1;
7     } else {
8         return n * fact(n - 1);
9     }
10 }
11
12 int main() {
13     int n;
14     printf("Enter a number: ");
15     scanf("%d", &n);
16
17     if (n < 0) {
18         printf("Factorial is not possible for negative numbers.\n");
19     } else {
20         printf("Factorial of %lld\n", fact(n));
21     }
22
23     return 0;
24 }
```

input

Enter a number: 5
Factorial of 120

...Program finished with exit code 0
Press ENTER to exit console.

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```
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2 #include <stdio.h>
3
4 long long fact(int n) {
5     if (n == 0 || n == 1) {
6         return 1;
7     } else {
8         return n * fact(n - 1);
9     }
10 }
11
12 int main() {
13     int n;
14     printf("Enter a number: ");
15     scanf("%d", &n);
16
17     if (n < 0) {
18         printf("Factorial is not possible for negative numbers.\n");
19     } else {
20         printf("Factorial of %lld\n", fact(n));
21     }
22
23     return 0;
24 }
```

input

Enter a number: 5
Factorial of 120

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21 3
1 2
1 1

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4 Code, Compile, Run and Debug online from anywhere in world.
5
6 *****/
7 #include <stdio.h>
8
9 int gcd(int a, int b) {
10     if (b == 0)
11         return a;
12     else
13         return gcd(b, a % b);
14 }
15
16
17 int main() {
18     int num1, num2;
19     printf("Enter two numbers");
20     scanf("%d %d", &num1, &num2);
21
22     printf("%d\n", gcd(num1, num2));
23
24     return 0;
25 }
26
```

input

Enter two numbers: 4 2

2

...Program finished with exit code 0

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6 Code, Compile, Run and Debug online from anywhere in world.
7
8 *****/
9 #include <stdio.h>
10 int digitsum(int n) {
11     if (n == 0)
12         return 0;
13     else
14         return (n % 10) + digitsum(n / 10);
15 }
16
17 int main() {
18     int num;
19     printf("Enter a number: ");
20     scanf("%d", &num);
21     printf("Sum of digits %d\n",digitsum(num));
22
23     return 0;
24 }
25
```

input

Enter a number: 123
Sum of digits 6

...Program finished with exit code 0

Type here to search

21 3
1 2
1 1

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```
8  *****/
9  #include <stdio.h>
10 int binarySearch(int arr[], int left, int right, int target) {
11     if (left <= right) {
12         int mid = (left + (right-left)) / 2;
13
14         if (arr[mid] == target)
15             return mid;
16         else if (arr[mid] > target)
17             return binarySearch(arr, left, mid - 1, target);
18         else
19             return binarySearch(arr, mid + 1, right, target);
20     }
21     return -1;
22 }
23
24 int main()
25 {
26     int books[] = {101, 203, 305, 410, 512, 630, 745, 890};
27     int n = sizeof(books) / sizeof(books[0]);
28     int target;
29     printf("enter book id to search: ");
30     scanf("%d", &target);
31 }
```

input

enter book id to search: 101
book id found at position 0

...Program finished with exit code 0
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main.c

9 #include <stdio.h>

10 int main() {

11 char op;

12 double num1, num2, result;

13

14 printf("Enter an operator (+, -, *, /) ");

15 scanf("%c", &op); // space before %c to ignore newline

16

17 printf("Enter two numbers: ");

18 scanf("%lf %lf", &num1, &num2);

19

20 switch (op) {

21 case '+':

22 result = num1 + num2;

23 printf("%.2lf\n", result);

24 break;

25 case '-':

26 result = num1 - num2;

27 printf("%.2lf\n", result);

28 break;

29 case '*':

30 result = num1 * num2;

31 printf("%.2lf\n", result);

32

33 }

34 }

input

Enter an operator (+, -, *, /) +

Enter two numbers: 10 20

30.00

...Program finished with exit code 0

Press ENTER to exit console.

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