

Online C Compiler

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Programiz C Online Compiler

Interactive C Course

Clear

```
main.c
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    }
}

```

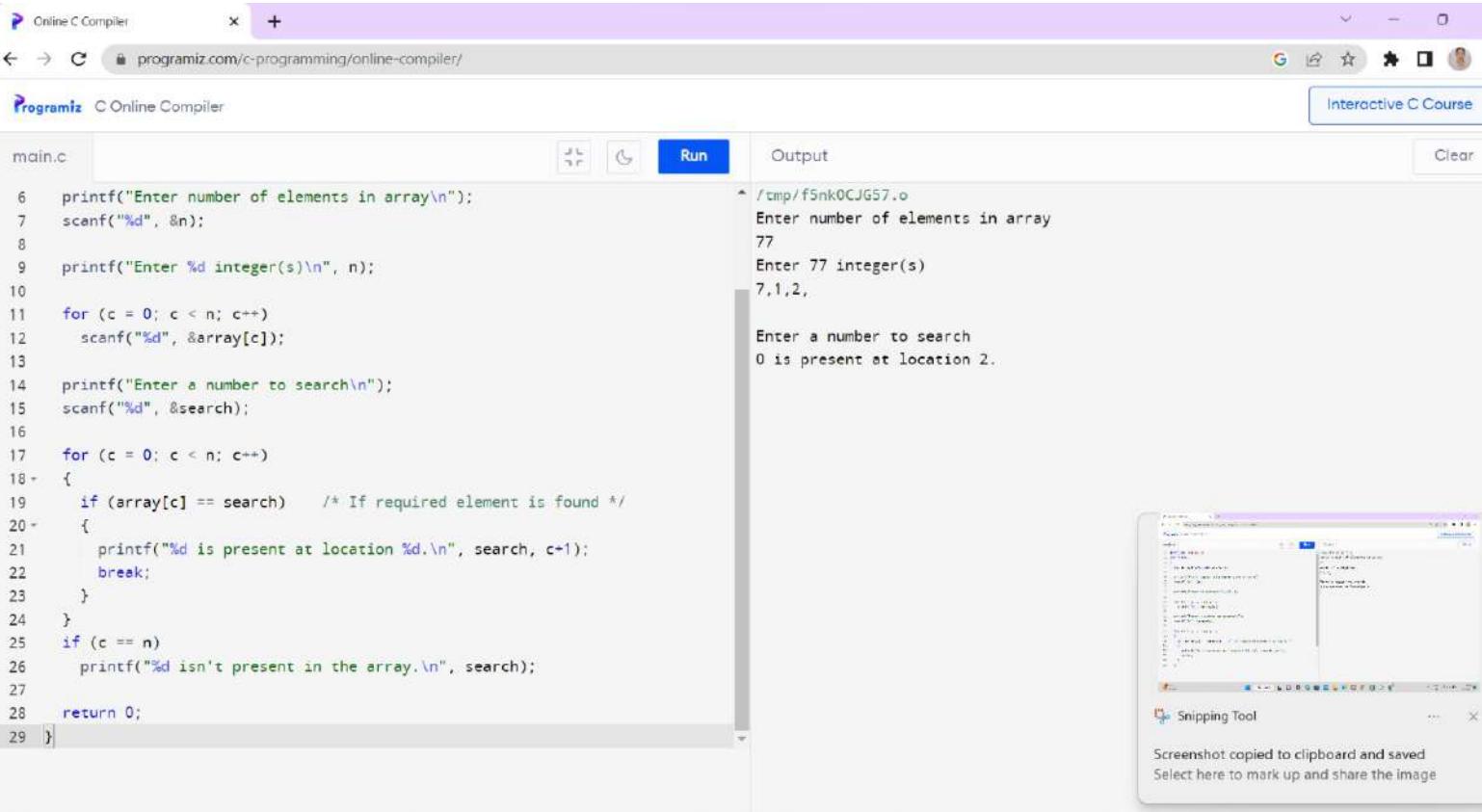
Output

```
/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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The screenshot shows an online C compiler interface. The code in the editor is as follows:

```
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 }
```

The output window shows the following interaction:

```
^ /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.
```

A screenshot of the Windows Snipping Tool application is overlaid on the bottom right, indicating that the screenshot has been copied to the clipboard and saved.

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Clear

```
main.c
```

Run

Output

```
1 // C++ program to find sum of series
2 // 1 + x/1 + x^2/2 + x^3/3 + ...+ x^n/n
3 #include <math.h>
4 double sum(int x, int n)
5 {
6     double i, total = 1.0;
7     for (i = 1; i <= n; i++)
8         total = total +
9             (pow(x, i) / i);
10    return total;
11 }
12 // Driver code
13 int main()
14 {
15
16     int x = 2;
17     int n = 5;
18     //std::cout<<g.sum(x,n);
19
20     return 0;
21 }
```

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

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```
main.c
```

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++)

Output

/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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Clear

```
main.c
```

Run

Output

```
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 = %.2f\n", cosx);
32     printf("The value of cos(%d) using library function = %f\n", x1,
33     cos(x));
34 }
```

```
/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
```

This screenshot shows a web-based C compiler interface from Programiz. The code in the editor calculates the sum of a cosine series using a manual implementation and compares it with the result from the library function `cos()`. The output window displays the compiled file name, user input, the calculated sum of the series, and the library function result.

The screenshot shows a browser window with the URL [programiz.com/c-programming/online-compiler/](http://programiz.com/c-programming/online-compiler/). The page title is "Programiz C Online Compiler". On the right, there is a button for "Interactive C Course". The main area has tabs for "main.c" and "Output". The code in "main.c" is as follows:

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

The "Output" tab shows the following results:

```
^ /tmp/f5nk0CJG57.o
Enter the value of x: 100
Enter the value of n: 1000
Floating point exception
```

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Programiz Online Compiler

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Interactive C Course

main.c

```
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 }
```

Run

Output

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

Clear

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main.c

```
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

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

File Types: HTML Run Copy Open

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IE-142 IE-143 IE-144 IE-145 IE-146 IE-147 IE-148 IE-149 IE-150 IE-151 IE-152 IE-153 IE-154 IE-155 IE-156 IE-157 IE-158 IE-159 IE-160 IE-161 IE-162 IE-163 IE-164 IE-165 IE-166 IE-167 IE-168 IE-169 IE-170 IE-171 IE-172 IE-173 IE-174 IE-175 IE-176 IE-177 IE-178 IE-179 IE-180 IE-181 IE-182 IE-183 IE-184 IE-185 IE-186 IE-187 IE-188 IE-189 IE-190 IE-191 IE-192 IE-193 IE-194 IE-195 IE-196 IE-197 IE-198 IE-199 IE-200 IE-201 IE-202 IE-203 IE-204 IE-205 IE-206 IE-207 IE-208 IE-209 IE-210 IE-211 IE-212 IE-213 IE-214 IE-215 IE-216 IE-217 IE-218 IE-219 IE-220 IE-221 IE-222 IE-223 IE-224 IE-225 IE-226 IE-227 IE-228 IE-229 IE-230 IE-231 IE-232 IE-233 IE-234 IE-235 IE-236 IE-237 IE-238 IE-239 IE-240 IE-241 IE-242 IE-243 IE-244 IE-245 IE-246 IE-247 IE-248 IE-249 IE-250 IE-251 IE-252 IE-253 IE-254 IE-255 IE-256 IE-257 IE-258 IE-259 IE-260 IE-261 IE-262 IE-263 IE-264 IE-265 IE-266 IE-267 IE-268 IE-269 IE-270 IE-271 IE-272 IE-273 IE-274 IE-275 IE-276 IE-277 IE-278 IE-279 IE-280 IE-281 IE-282 IE-283 IE-284 IE-285 IE-286 IE-287 IE-288 IE-289 IE-290 IE-291 IE-292 IE-293 IE-294 IE-295 IE-296 IE-297 IE-298 IE-299 IE-300 IE-301 IE-302 IE-303 IE-304 IE-305 IE-306 IE-307 IE-308 IE-309 IE-310 IE-311 IE-312 IE-313 IE-314 IE-315 IE-316 IE-317 IE-318 IE-319 IE-320 IE-321 IE-322 IE-323 IE-324 IE-325 IE-326 IE-327 IE-328 IE-329 IE-330 IE-331 IE-332 IE-333 IE-334 IE-335 IE-336 IE-337 IE-338 IE-339 IE-340 IE-341 IE-342 IE-343 IE-344 IE-345 IE-346 IE-347 IE-348 IE-349 IE-350 IE-351 IE-352 IE-353 IE-354 IE-355 IE-356 IE-357 IE-358 IE-359 IE-360 IE-361 IE-362 IE-363 IE-364 IE-365 IE-366 IE-367 IE-368 IE-369 IE-370 IE-371 IE-372 IE-373 IE-374 IE-375 IE-376 IE-377 IE-378 IE-379 IE-380 IE-381 IE-382 IE-383 IE-384 IE-385 IE-386 IE-387 IE-388 IE-389 IE-390 IE-391 IE-392 IE-393 IE-394 IE-395 IE-396 IE-397 IE-398 IE-399 IE-400 IE-401 IE-402 IE-403 IE-404 IE-405 IE-406 IE-407 IE-408 IE-409 IE-410 IE-411 IE-412 IE-413 IE-414 IE-415 IE-416 IE-417 IE-418 IE-419 IE-420 IE-421 IE-422 IE-423 IE-424 IE-425 IE-426 IE-427 IE-428 IE-429 IE-430 IE-431 IE-432 IE-433 IE-434 IE-435 IE-436 IE-437 IE-438 IE-439 IE-440 IE-441 IE-442 IE-443 IE-444 IE-445 IE-446 IE-447 IE-448 IE-449 IE-450 IE-451 IE-452 IE-453 IE-454 IE-455 IE-456 IE-457 IE-458 IE-459 IE-460 IE-461 IE-462 IE-463 IE-464 IE-465 IE-466 IE-467 IE-468 IE-469 IE-470 IE-471 IE-472 IE-473 IE-474 IE-475 IE-476 IE-477 IE-478 IE-479 IE-480 IE-481 IE-482 IE-483 IE-484 IE-485 IE-486 IE-487 IE-488 IE-489 IE-490 IE-491 IE-492 IE-493 IE-494 IE-495 IE-496 IE-497 IE-498 IE-499 IE-500 IE-501 IE-502 IE-503 IE-504 IE-505 IE-506 IE-507 IE-508 IE-509 IE-510 IE-511 IE-512 IE-513 IE-514 IE-515 IE-516 IE-517 IE-518 IE-519 IE-520 IE-521 IE-522 IE-523 IE-524 IE-525 IE-526 IE-527 IE-528 IE-529 IE-530 IE-531 IE-532 IE-533 IE-534 IE-535 IE-536 IE-537 IE-538 IE-539 IE-540 IE-541 IE-542 IE-543 IE-544 IE-545 IE-546 IE-547 IE-548 IE-549 IE-550 IE-551 IE-552 IE-553 IE-554 IE-555 IE-556 IE-557 IE-558 IE-559 IE-560 IE-561 IE-562 IE-563 IE-564 IE-565 IE-566 IE-567 IE-568 IE-569 IE-570 IE-571 IE-572 IE-573 IE-574 IE-575 IE-576 IE-577 IE-578 IE-579 IE-580 IE-581 IE-582 IE-583 IE-584 IE-585 IE-586 IE-587 IE-588 IE-589 IE-590 IE-591 IE-592 IE-593 IE-594 IE-595 IE-596 IE-597 IE-598 IE-599 IE-600 IE-601 IE-602 IE-603 IE-604 IE-605 IE-606 IE-607 IE-608 IE-609 IE-610 IE-611 IE-612 IE-613 IE-614 IE-615 IE-616 IE-617 IE-618 IE-619 IE-620 IE-621 IE-622 IE-623 IE-624 IE-625 IE-626 IE-627 IE-628 IE-629 IE-630 IE-631 IE-632 IE-633 IE-634 IE-635 IE-636 IE-637 IE-638 IE-639 IE-640 IE-641 IE-642 IE-643 IE-644 IE-645 IE-646 IE-647 IE-648 IE-649 IE-650 IE-651 IE-652 IE-653 IE-654 IE-655 IE-656 IE-657 IE-658 IE-659 IE-660 IE-661 IE-662 IE-663 IE-664 IE-665 IE-666 IE-667 IE-668 IE-669 IE-670 IE-671 IE-672 IE-673 IE-674 IE-675 IE-676 IE-677 IE-678 IE-679 IE-680 IE-681 IE-682 IE-683 IE-684 IE-685 IE-686 IE-687 IE-688 IE-689 IE-690 IE-691 IE-692 IE-693 IE-694 IE-695 IE-696 IE-697 IE-698 IE-699 IE-700 IE-701 IE-702 IE-703 IE-704 IE-705 IE-706 IE-707 IE-708 IE-709 IE-710 IE-711 IE-712 IE-713 IE-714 IE-715 IE-716 IE-717 IE-718 IE-719 IE-720 IE-721 IE-722 IE-723 IE-724 IE-725 IE-726 IE-727 IE-728 IE-729 IE-730 IE-731 IE-732 IE-733 IE-734 IE-735 IE-736 IE-737 IE-738 IE-739 IE-740 IE-741 IE-742 IE-743 IE-744 IE-745 IE-746 IE-747 IE-748 IE-749 IE-750 IE-751 IE-752 IE-753 IE-754 IE-755 IE-756 IE-757 IE-758 IE-759 IE-760 IE-761 IE-762 IE-763 IE-764 IE-765 IE-766 IE-767 IE-768 IE-769 IE-770 IE-771 IE-772 IE-773 IE-774 IE-775 IE-776 IE-777 IE-778 IE-779 IE-780 IE-781 IE-782 IE-783 IE-784 IE-785 IE-786 IE-787 IE-788 IE-789 IE-790 IE-791 IE-792 IE-793 IE-794 IE-795 IE-796 IE-797 IE-798 IE-799 IE-800 IE-801 IE-802 IE-803 IE-804 IE-805 IE-806 IE-807 IE-808 IE-809 IE-810 IE-811 IE-812 IE-813 IE-814 IE-815 IE-816 IE-817 IE-818 IE-819 IE-820 IE-821 IE-822 IE-823 IE-824 IE-825 IE-826 IE-827 IE-828 IE-829 IE-830 IE-831 IE-832 IE-833 IE-834 IE-835 IE-836 IE-837 IE-838 IE-839 IE-840 IE-841 IE-842 IE-843 IE-844 IE-845 IE-846 IE-847 IE-848 IE-849 IE-850 IE-851 IE-852 IE-853 IE-854 IE-855 IE-856 IE-857 IE-858 IE-859 IE-860 IE-861 IE-862 IE-863 IE-864 IE-865 IE-866 IE-867 IE-868 IE-869 IE-870 IE-871 IE-872 IE-873 IE-874 IE-875 IE-876 IE-877 IE-878 IE-879 IE-880 IE-881 IE-882 IE-883 IE-884 IE-885 IE-886 IE-887 IE-888 IE-889 IE-890 IE-891 IE-892 IE-893 IE-894 IE-895 IE-896 IE-897 IE-898 IE-899 IE-900 IE-901 IE-902 IE-903 IE-904 IE-905 IE-906 IE-907 IE-908 IE-909 IE-910 IE-911 IE-912 IE-913 IE-914 IE-915 IE-916 IE-917 IE-918 IE-919 IE-920 IE-921 IE-922 IE-923 IE-924 IE-925 IE-926 IE-927 IE-928 IE-929 IE-930 IE-931 IE-932 IE-933 IE-934 IE-935 IE-936 IE-937 IE-938 IE-939 IE-940 IE-941 IE-942 IE-943 IE-944 IE-945 IE-946 IE-947 IE-948 IE-949 IE-950 IE-951 IE-952 IE-953 IE-954 IE-955 IE-956 IE-957 IE-958 IE-959 IE-960 IE-961 IE-962 IE-963 IE-964 IE-965 IE-966 IE-967 IE-968 IE-969 IE-970 IE-971 IE-972 IE-973 IE-974 IE-975 IE-976

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main.c

```
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;
```

Run

Output

/tmp/zORXeSJjMM.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

```
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 }
```

Output

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

JS

GO

PHP

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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

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main.c

```
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 }
```

Run

Output

/tmp/zORXeSJjMM.o  
Enter an integer: 80  
80 is even.

Clear

JS

GO

PHP

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main.c

```
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 }
```

Run

Output

/tmp/rGchuug4zp.o  
Enter an integer: 2  
Reversed number = 2

Clear

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main.c

```
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 }
```

Run

Output

/tmp/rGchuug4zp.o  
Enter an integer: 2  
Reversed number = 2

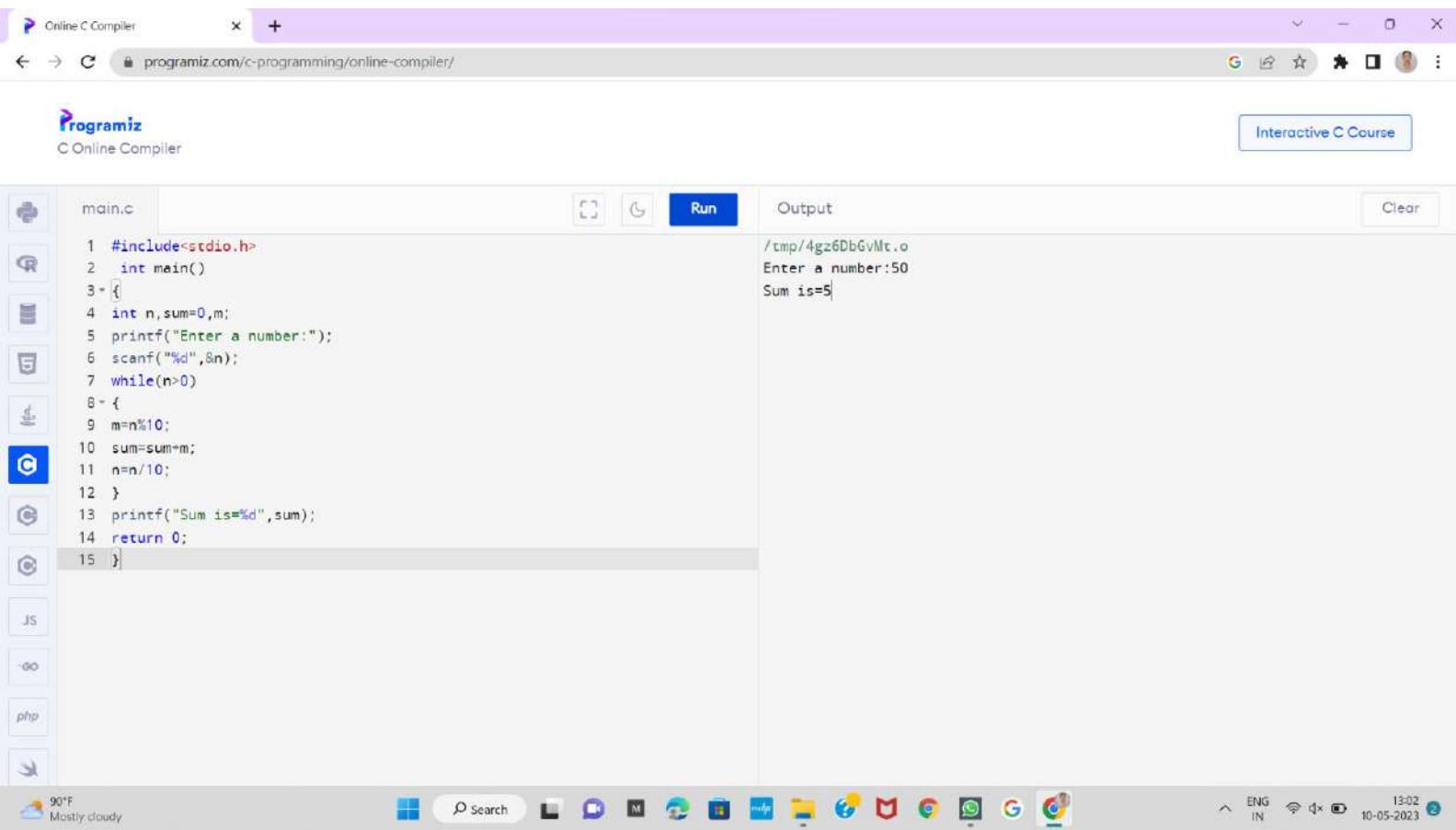
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main.c

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

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main.c

Run

Output

```
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 }
```

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

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main.c

```
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 }
```

Run

Output

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

Clear

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main.c

```
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 }
```

Output

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

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main.c

```
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 }
```

Output

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

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