

The image is a screenshot of a web browser displaying the OnlineGDB website. The browser's address bar shows the URL "onlinegdb.com/online_c_compiler". The page has a dark theme. On the left, there is a sidebar with the OnlineGDB logo and navigation links: "code, compile, run, debug, share.", "IDE", "My Projects", "Classroom", "Learn Programming", "Programming Questions", "We are Hiring", "Sign Up", and "Login". Below these are social media icons for Facebook and Twitter, and a button that says "+ 62.3K". The main content area is divided into two panes. The top pane shows a C program in a file named "main.c". The code is as follows:

```
9 #include <stdio.h>
10 #include <stdlib.h>
11 int main()
12 {
13     int arr[10], num, i=0, j, rem, rev=0;
14     printf("\n Enter a number :");
15     scanf("%d", &num);
16     printf("\n the digits of the number are :");
17     while(num!=0)
18     {
19         rem=num%10;
20         arr[i]=rem;
21         rev=rev*10+rem;
22         i++;
23         num=num/10;
24     }
25
26     for(j=i-1; j>=0; j--)
27         printf("%d,", arr[j]);
28     printf("\n the number of digits are : %d", i);
29     printf("\n the reverse of the number is : %d", rev);
30     return 0;
31 }
32
33
```

 The bottom pane shows the program's output:

```
Enter a number : 345
the digits of the number are : 3,4,5,
the number of digits are : 3
the reverse of the number is : 543
...Program finished with exit code 0
Press ENTER to exit console.[]
```

 The browser's taskbar at the bottom shows several open applications, including a file explorer, a terminal, and a web browser. The system clock in the bottom right corner indicates the time is 04:13 PM on 09-10-2021.

Online C Compiler

Online C Compiler

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main.c

RunDebugStopShareSaveBeautify

LanguageC

```
8
9 #include <stdio.h>
10 int main()
11 {
12     int num, sum = 0, rem = 0, SecSum=0;
13     printf("Enter a number: \n");
14     scanf("%d", &num);
15     while(num!=0)
16     {
17         rem=num%10;
18         sum = sum+rem;
19         num=num/10;
20     }
21     printf("The sum of digits is %d\n", sum);
22     rem = 0;
23     while( sum!=0)
24     {
25         rem = sum%10;
26         SecSum+=rem;
27         sum=sum/10;
28     }
29     printf("The single digit sum is %d", SecSum);
30     return 0;
31 }
32
```

input

Enter a number:
15678
The sum of digits is 27
The single digit sum is 9
...Program finished with exit code 0
Press ENTER to exit console.

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Windows taskbar icons: File Explorer, Chrome, VS Code, Settings, Spotify, WhatsApp, Edge, Mail, Task View, Start Menu, Search, Task View, Start Menu, Search.

System tray: ENG IN, Network, Sound, Display, Date/Time: 04:13 PM 09-10-2021, Battery: 4.

Online C Compiler

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main.c

RunDebugStopShareSaveBeautify

LanguageC

```
8
9 #include <stdio.h>
10 int main()
11 {
12     int num, sum = 0, rem = 0, SecSum=0;
13     printf("Enter a number: \n");
14     scanf("%d", &num);
15     while(num!=0)
16     {
17         rem=num%10;
18         sum = sum+rem;
19         num=num/10;
20     }
21     printf("The sum of digits is %d\n", sum);
22     rem = 0;
23     while( sum!=0)
24     {
25         rem = sum%10;
26         SecSum+=rem;
27         sum=sum/10;
28     }
29     printf("The single digit sum is %d", SecSum);
30     return 0;
31 }
32
```

input

Enter a number:
75389
The sum of digits is 32
The single digit sum is 5
...Program finished with exit code 0
Press ENTER to exit console.

Windows Taskbar

04:14 PM 09-10-2021

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main.c

Run Debug Stop Share Save Beautify

Language C

```
1 //*****
2
3 |           |           |           |           |           |           |           |           |           |
4 |           |           |           |           |           |           |           |           |           |
5 |           |           |           |           |           |           |           |           |           |
6 |           |           |           |           |           |           |           |           |           |
7 |           |           |           |           |           |           |           |           |           |
8
9 #include<stdio.h>
10 #include<stdlib.h>
11 int main()
12 {
13     int num,sum=0,rem=0;
14     printf("Enter a number:\n");
15     scanf("%d",&num);
16     if(num==0)
17     {
18         printf("The sum is 1\n");
19         exit(0);
20     }
21     while(num!=0)
22     {
23         rem=num%10;
24         sum=sum+rem+1;
25         num=num/10;
26     }
27     printf("The sum is %d\n",sum);
28     return 0;
29 }
30
```

Input

Enter a number:
0
The sum is 1
...Program finished with exit code 0
Press ENTER to exit console.

Call Stack

Function File Line

Local Variables

Variable Value

Registers

Register Value

Display Expressions

ExpressionValue

Enter expression to watch

Breakpoints and Watchpoints

Description

Windows Taskbar

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main.c

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

```
1 //*****
2
3 |           |           |           |           |           |           |           |           |           |
4 |           |           |           |           |           |           |           |           |           |
5 |           |           |           |           |           |           |           |           |           |
6 |           |           |           |           |           |           |           |           |           |
7 |           |           |           |           |           |           |           |           |           |
8
9 #include<stdio.h>
10 #include<stdlib.h>
11 int main()
12 {
13     int num,sum=0,rem=0;
14     printf("Enter a number:\n");
15     scanf("%d",&num);
16     if(num==0)
17     {
18         printf("The sum is 1\n");
19         exit(0);
20     }
21     while(num!=0)
22     {
23         rem=num%10;
24         sum=sum+rem+1;
25         num=num/10;
26     }
27     printf("The sum is %d\n",sum);
28     return 0;
29 }
30
```

Run Debug Stop Share Save Beautify

Language C

Call Stack
Function File Line
Local Variables
Variable Value
Registers
Register Value
Display Expressions
ExpressionValue
Enter expression to watch
Breakpoints and Watchpoints
Description

Input

Enter a number:
111
The sum is 6
...Program finished with exit code 0
Press ENTER to exit console.

Windows Taskbar

05:06 PM 09-10-2021

Online C Compiler interface showing a C program to remove zeros from a number.

Code:

```
1: // Online C Compiler.
2: // Code, Compile, Run and Debug C program online.
3: // Write your code in this editor and press "Run" button to compile and execute it.
4:
5:
6:
7:
8:
9: #include<stdio.h>
10: #include<math.h>
11: int remove_zeros(int n)
12: {
13:     int r, num = 0;
14:     // removing zeros from n and storing the number in num
15:     while(n > 0)
16:     {
17:         r = n % 10;
18:         n = n / 10;
19:         if(r != 0)
20:         {
21:             num = num * 10 + r;
22:         }
23:     }
24:     n = num;
25:     num = 0;
26:     while(n > 0)
27:     {
28:         r = n % 10;
29:         n = n / 10;
30:         num = num * 10 + r;
31:     }
32:     return num;
33: }
34:
35: int main()
36: {
37:     int n;
38:     printf("Enter a Number: ");
39:     scanf("%d", &n);
40:     printf("Number after removing zeros = %d", remove_zeros(n));
41: }
```

Output:

```
Enter a Number: 8245
Number after removing zeros = 8245
...Program finished with exit code 0
Press ENTER to exit console.[]
```

Right Panel:

- Call Stack:** #, Function, File Line
- Local Variables:** Variable, Value
- Registers:** Register, Value
- Display Expressions:** Expression, Value
- Breakpoints and Watchpoints:** #, Description

Taskbar: Windows Start button, Search, Task View, File Explorer, Microsoft Edge, Google Chrome, VS Code, Settings, Spotify, WhatsApp, Telegram, and system tray showing ENG IN, 04:24 PM, 09-10-2021, and 4 notifications.

Online C Compiler interface showing a C program to remove zeros from a number.

Code:

```
1: // Online C Compiler.
2: // Code, Compile, Run and Debug C program online.
3: // Write your code in this editor and press "Run" button to compile and execute it.
4:
5:
6:
7:
8:
9: #include<stdio.h>
10: #include<math.h>
11: int remove_zeros(int n)
12: {
13:     int r, num = 0;
14:     // removing zeros from n and storing the number in num
15:     while(n > 0)
16:     {
17:         r = n % 10;
18:         n = n / 10;
19:         if(r != 0)
20:         {
21:             num = num * 10 + r;
22:         }
23:     }
24:     n = num;
25:     num = 0;
26:     while(n > 0)
27:     {
28:         r = n % 10;
29:         n = n / 10;
30:         num = num * 10 + r;
31:     }
32:     return num;
33: }
34:
35: int main()
36: {
37:     int n;
38:     printf("Enter a Number: ");
39:     scanf("%d", &n);
40:     printf("Number after removing zeros = %d", remove_zeros(n));
41: }
```

Output:

```
Enter a Number: 2036
Number after removing zeros = 236
...Program finished with exit code 0
Press ENTER to exit console.
```

Right Panel:

- Call Stack
- Local Variables
- Registers
- Display Expressions
- Breakpoints and Watchpoints

Taskbar: Windows 10 taskbar with various application icons and system clock showing 04:24 PM 09-10-2021.

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main.c

```
9 #include<stdio.h>
10 #include<math.h>
11 int remove_zeros(int n)
12 {
13
14     int r, num = 0;
15     // removing zeros from n and storing the number in num
16     while(n > 0)
17     {
18         r = n % 10;
19         n = n / 10;
20         if(r!=0)
21         {
22             num = num*10 + r;
23         }
24     }
25
26     n = num;
27     num = 0;
28     while(n>0)
29     {
30         r = n % 10;
31         n = n / 10;
32         num = num*10 + r;
33     }
34
35     return num;
36 }
37
38 int main()
39 {
40     int n;
41     printf("Enter a Number: ");
42     scanf("%d", &n);
43     printf("Number after removing zeros = %d", remove_zeros(n));
44 }
```

Language: C

Call Stack

#	Function	File	Line
---	----------	------	------

Local Variables

Variable	Value
----------	-------

Registers

Register	Value
----------	-------

Display Expressions

Expression	Value
------------	-------

Breakpoints and Watchpoints

#	Description
---	-------------

input

Enter a Number: 1000
Number after removing zeros = 1
...Program finished with exit code 0
Press ENTER to exit console.

05:05 PM 09-10-2021

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main.c

```
1: /*===== Online C Compiler =====  
2: Code, Compile, Run and Debug C program online.  
3: Write your code in this editor and press "Run" button to compile and execute it.  
4: =====*/  
5:  
6:  
7:  
8:  
9:  
10: #include<stdio.h>  
11: int main()  
12: {  
13:     int num,rem,rev=0;  
14:     printf("Enter a number:\n");  
15:     scanf("%d",&num);  
16:     printf("Digits extracted:\n");  
17:     while(num!=0)  
18:     {  
19:         rem=num%10;  
20:         rev=rev*10+rem;  
21:         num=num/10;  
22:     }  
23:     num=rev;  
24:     rem=0;  
25:     while(num!=0)  
26:     {  
27:         rem=num%10;  
28:         num=num/10;  
29:         printf("%d",rem);  
30:     }  
31:     return 0;  
32: }  
33:  
34:  
35:
```

Input

Enter a number:
2345
Digits extracted:
5342
...Program finished with exit code 0
Press ENTER to exit console.

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09-10-2021

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5 Write your code in this editor and press "Run" button to compile and execute it.
6
7 *****
8
9 #include<stdio.h>
10 int main()
11 {
12 int num,rem=0,pnum=0,rev=0;
13 printf("Enter a number:\n");
14 scanf("%d",&num);
15 while(num!=0)
16 {
17 rem=num%10;
18 if(rem==0)
19 pnum=pnum*10;
20 else
21 pnum=pnum*10 + rem + 1;
22 num=num/10;
23 }
24 rem=0;
25 while(pnum!=0)
26 {
27 rem=pnum%10;
28 rev=rev*10+rem;
29 pnum=pnum/10;
30 }
31 printf("Pin number = %d",rev);
32 return 0;
33 }
34
35

input
Enter a number:
4184
Pin number = 5295
...Program finished with exit code 0
Press ENTER to exit console.

Registers

Register	Value
----------	-------

Display Expressions

Expression	Value
------------	-------

Enter expression to watch

Breakpoints and Watchpoints

#	Description
---	-------------

Windows Taskbar

05:08 PM 09-10-2021

Online C Compiler

Code, Compile, Run and Debug C program online.
Write your code in this editor and press "Run" button to compile and execute it.

```
#include<stdio.h>
int main()
{
    int num,rem=0,pnum=0,rev=0;
    printf("Enter a number:\n");
    scanf("%d",&num);
    while(num!=0)
    {
        rem=num%10;
        if(rem==0)
            pnum=pnum*10;
        else
            pnum=pnum*10 + rem + 1;
        num=num/10;
    }
    rem=0;
    while(pnum!=0)
    {
        rem=pnum%10;
        rev=rev*10+rem;
        pnum=pnum/10;
    }
    printf("Pin number = %d",rev);
    return 0;
}
```

Input

Enter a number:
2995
Pin number = 3006
...Program finished with exit code 0
Press ENTER to exit console.

Variable Value

Registers

Register Value

Display Expressions

Expression Value

Enter expression to watch

Breakpoints and Watchpoints

Description

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