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line Compiler

ain.c

I // QUESTION 26

```
1 // Online C compiler to run C program online
2
3 #include <stdio.h>
4 void main()
5 {
6     int x = printf("C is placement oriented Language") - printf("Hi");
7     printf("%d %o %x", x,x,x);
8 }
9
10
```

Run

Output

/tmp/EWJxK7cZSj.o  
C is placement oriented LanguageHi30 36 1e

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main.c

```
1 // QUESTION 27
2 // Online C compiler to run C program online
3
4 #include <stdio.h>
5 int main()
6 {
7     printf("The given statement reads two integer values from the user and stores them in variables 'a' and 'b'. It then prints the number of successful inputs (usually 2) to the console.");
8     printf("\n In simpler terms, it tells you how many integers you successfully entered when prompted.");
9     return 0;
10 }
```

Output

/tmp/gRwG0bHSKE.o

The given statement reads two integer values from the user and stores them in variables 'a' and 'b'. It then prints the number of successful inputs (usually 2) to the console.

In simpler terms, it tells you how many integers you successfully entered when prompted.

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main.c

```
1 // QUESTION 29
2 // Online C compiler to run C program online
3
4 #include <stdio.h>
5
6 int main() {
7     double distance, time, speed;
8
9     printf("Enter the distance between GLA University and Delhi ");
10    scanf("%lf", &distance);
11
12    printf("Enter the time taken to reach Delhi by bus ");
13    scanf("%lf", &time);
14
15    speed = distance / time;
16    printf("The speed of the bus is %.2lf km/h\n", speed);
17
18    return 0;
19 }
20
21
22
23
24
25
```

Run

Output

/tmp/gRwGObHSKE.o  
Enter the distance between GLA University and Delhi 999  
Enter the time taken to reach Delhi by bus 242  
The speed of the bus is 4.13 km/h

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C

main.c

```
1 //  QUESTION 28
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6 void main()
7 {
8     printf(" \\"C %% FOR %% PLACEMENT\\\"");
9 }
10
11
12
13
14
15
```



Run

Output

```
/tmp/gRwGObHSKE.o
"C % FOR % PLACEMENT"
```

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main.c

```
1 // QUESTION 30
2 // Online C compiler to run C program online
3
4 #include <stdio.h>
5
6 int main() {
7     int satyamMarks = 50;
8     int sumanMarks = 70;
9     int shyamMarks = 80;
10    int numberOfParticipants = 3;
11    double averageMarks;
12    averageMarks = (satyamMarks + sumanMarks + shyamMarks) / (double
13        )numberOfParticipants;
14    printf("Average marks of Satyam, Suman, and Shyam: %.2f\n", averageMarks);
15
16    return 0;
17 }
18
19
20
21
22
23
```

Run Output

```
/tmp/gRwGObHSKE.o
Average marks of Satyam, Suman, and Shyam: 66.67
```

The screenshot shows a Windows operating system desktop. In the center is a code editor window titled 'main.c'. The code itself is a simple C program that calculates the average of three student marks. The output pane of the editor shows the compiled file path '/tmp/gRwGObHSKE.o' and the resulting output 'Average marks of Satyam, Suman, and Shyam: 66.67'. Below the code editor is a standard Windows taskbar. On the left side of the taskbar, there's a weather widget showing '90°F Sunny'. The taskbar icons include the Start button, a search bar, and links to various Microsoft apps like Mail, Photos, and Edge. On the right side of the taskbar, there are icons for network connectivity, battery status, and the date/time ('5:10 PM 8/17/2023').

main.c

```
1 // QUESTION 31
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6
7 int main() {
8     int sauravMoney, sajalMoney, temp;
9     printf("Enter the money given to Saurav ");
10    scanf("%d", &sauravMoney);
11    printf("Enter the money given to Sajal ");
12    scanf("%d", &sajalMoney);
13    temp = sauravMoney;
14    sauravMoney = sajalMoney;
15    sajalMoney = temp;
16    printf("After rectification:\n");
17    printf("Money given to Saurav: %d \n", sauravMoney);
18    printf("Money given to Sajal: %d \n", sajalMoney);
19
20    return 0;
21 }
```



Run

Output

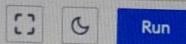
```
/tmp/fe49InRQVV.o
Enter the money given to Saurav 100
Enter the money given to Sajal 20
After rectification:
Money given to Saurav: 20
Money given to Sajal: 100
```

Search



main.c

```
1 // QUESTION 32
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6
7+ int main() {
8     double speedKmph = 4.0;
9     double timeMinutes = 3.0;
10
11    double timeHours = timeMinutes / 60.0;
12    double distanceKm = speedKmph * timeHours;
13
14    printf("Distance traveled: %.2lf kilometers\n", distanceKm);
15    return 0;
16 }
```



Run

Output

```
/tmp/fe49InRQVV.o
Distance traveled: 0.20 kilometers
```

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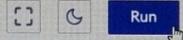
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main.c

```
1 // QUESTION 33
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6
7 int main() {
8     printf("Hello, \n\tWorld!\n");
9     return 0;
10 }
```



Run

Output

```
/tmp/fe49InRQVV.o
Hello,
    World!
```



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C Online Compiler

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main.c

```
1 // QUESTION 34
2
3     // Online C compiler to run C program online
4
5 #include <stdio.h>
6
7 int main() {
8     printf("Comments in a C program are non-executable statements that are used
         to provide explanations, descriptions, or notes within the source code.
         Comments are ignored by the C compiler and are meant for human readers to
         understand the code better. They are crucial for documenting code, making it more
         readable, and helping other programmers (including your future self) understand your code");
9     printf("\n\nSingle-Line Comments:** Single-line comments are used for brief
         comments that span only one line. They start with '//' and continue until the
         end of the line");
10    printf("\n\nMulti-Line Comments: Multi-line comments are used for longer
         comments that may span multiple lines. They start with '/*' and end with '*/'.
         Everything between '/*' and '*/' is considered a comment");
11    return 0;
12 }
```

Output

/tmp/fe49InRQVV.o

Comments in a C program are non-executable statements that are used to provide explanations, descriptions, or notes within the source code. Comments are ignored by the C compiler and are meant for human readers to understand the code better. They are crucial for documenting code, making it more readable, and helping other programmers (including your future self) understand your code

Single-Line Comments:\*\* Single-line comments are used for brief comments that span only one line. They start with '//' and continue until the end of the line

Multi-Line Comments: Multi-line comments are used for longer comments that may span multiple lines. They start with '/\*' and end with '\*/'. Everything between '/\*' and '\*/' is considered a comment

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QUESTION 35

```
// Online C compiler to run C program online
#include <stdio.h>

int main() {
    printf(" The issue with the statement is the use of incorrect double quotes
           for the format specifier and the missing ampersand & before the variable
           name. ");
}

return 0;
```

Output

/tmp/fe49InRQVV.o  
The issue with the statement is the use of incorrect double quotes for the format specifier and the missing ampersand & before the variable name.

A screenshot of a Windows desktop. At the top, there's a browser-like interface with tabs, a search bar, and various icons. Below the browser is a standard Windows taskbar with icons for File Explorer, Mail, Photos, and others. The system tray shows the date and time (9/17/2023, 5:35 PM), battery status (ENG IN), and network connectivity. The bottom of the screen features a dark Dell logo.

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main.c

1 // QUESTION 36  
2  
3 // Online C compiler to run C program online  
4  
5 #include <stdio.h>  
6 int main()  
7 {  
8 if (sizeof (int) > -1)  
9 printf("Yes");  
10 else  
11 printf("No");  
12  
13  
14 return 0;  
15 }

Run Output

/tmp/fe49InRQVV.o  
No

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main.c

```
1 // QUESTION 37
2
3 // Online C compiler to run C program online
4
5 #include <stdio.h>
6 int main()
7 {
8     printf("In C, variable names have certain rules and conventions. Here are the INTEREST: Valid Variable names in C are case-sensitive, so INTEREST is valid
         variable names you provided, with an explanation of whether they are
         valid or invalid.");
9     printf("\n\ngross-salary: Invalid Variable names in C cannot contain hyphens
         You should use underscores (_) instead if you want a separator in the
         name, like gross_salary.");
10    printf("\n\nINTEREST: Valid Variable names in C are case-sensitive, so
         INTEREST is valid variable name.");
11    printf("\n\nsalary of emp: Invalid Variable names cannot contain spaces,
         You can use underscores (_) or camel case (salaryOfEmp) to separate words
         .");
12    printf("\n\navg.: Invalid Variable names cannot contain a period (.). Avoid
         using special characters in variable names.");
13    printf("\n\nthereisbookinmysoup: Valid This variable name consists of
         letters and underscores and does not violate any C naming rules. So, the
         valid variable names are INTEREST and thereisbookinmysoup.");
14
15 }
```

Output

/tmp/fe49InRQVV.o

In C, variable names have certain rules and conventions. Here are the variable names you provided, with an explanation of whether they are valid or invalid:

gross-salary: Invalid Variable names in C cannot contain hyphens You should use underscores (\_) instead if you want a separator in the name, like gross\_salary.

INTEREST: Valid Variable names in C are case-sensitive, so INTEREST is valid variable name.

salary of emp: Invalid Variable names cannot contain spaces. You can use underscores (\_) or camel case (salaryOfEmp) to separate words.

avg.: Invalid Variable names cannot contain a period (.). Avoid using special characters in variable names.

thereisbookinmysoup: Valid This variable name consists of letters and underscores and does not violate any C naming rules. So, the valid variable names are INTEREST and thereisbookinmysoup.

Clear

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QUESTION 37

gross-salary: Invalid Variable names in C cannot contain hyphens You should use underscores (\_) instead if you want a separator in the name, like gross\_salary.

INTEREST: Valid Variable names in C are case-sensitive, so INTEREST is valid variable name.

salary of emp: Invalid Variable names cannot contain spaces. You can use underscores (\_) or camel case (salaryOfEmp) to separate words.

avg.: Invalid Variable names cannot contain a period (.). Avoid using special characters in variable names.

thereisbookinmysoup: Valid This variable name consists of letters and underscores and does not violate any C naming rules. So, the valid variable names are INTEREST and thereisbookinmysoup.

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The screenshot shows a C programming interface with the following details:

- Title Bar:** The title bar displays "QUESTION 38".
- Run Button:** A blue "Run" button is visible in the top right corner.
- Output Tab:** The "Output" tab is selected, showing the results of the program execution.
- Code Content:** The code is a C program named "QUESTION 38". It includes comments for the question number and the online compiler usage. The code defines variables for tank size (175.0) and rate (25.0), calculates the time required (7.00 hours), and prints the result.
- Output Log:** The output log shows the compiled file path "/tmp/Zg0MpMT6r3.o" and the printed output "Time required to completely clean the tank: 7.00 hours".
- Taskbar:** The taskbar at the bottom of the screen shows various application icons, including a search bar, a file explorer, and several browser and utility icons.

```
// QUESTION 38
// Online C compiler to run C program online

#include <stdio.h>

int main() {
    double tankSize = 175.0;
    double rate = 25.0;
    double timeRequired;

    timeRequired = tankSize / rate;

    printf("Time required to completely clean the tank: %.2lf hours\n",
           timeRequired);
    return 0;
}
```

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```
main.c // QUESTION 39
1 // Online C compiler to run C program online
2
3 #include <stdio.h>
4
5 int main() {
6     double batteryPower = 0.75; // 75% in decimal form
7     double hours;
8
9     hours = (1 - batteryPower) / (-0.2);
10
11    printf("After %.2lf hours, the battery power is at 75%%.\n", hours);
12
13    return 0;
14 }
15 }
```

Output

/tmp/cLhXwkF7tu.o  
After -1.25 hours, the battery power is at 75%.

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zin.c

// QUESTION 40

// Online C compiler to run C program online

```
#include <stdio.h>

int main() {
    printf("Question: Which of the following is used to convert the high level
language in machine language in a single go?");
    printf("\n\nAnswer:Compiler");
    return 0;
}
```

Run Output Clear

/tmp/LiMfLuYVQm.o

Question: Which of the following is used to convert the high level language in machine language in a single go?

Answer:Compiler

6:07 PM 9/17/2023