



I'm not robot



**Open**

## C printf format decimal places

```

1 #include<stdio.h>
2 #include<conio.h>
3
4 void main(void)
5 {
6     int i = 34;
7     char c = 'A';
8     float f = 100.040;
9     double d = 0.000958;
10    printf("%e", d);
11 }

```

*Handwritten notes:*  
 @  $b \times 10^n$   
 $9.58 \times 10^{-7}$   
 +ve

```

1 #include <stdio.h>
2 #include <math.h>
3
4 int main()
5 {
6     float r;
7     printf("Enter the circle's radius to calculate its area and circumference: ");
8     scanf("%f", &r);
9     printf("The circle with a radius of %f has an area of %f and a circumference of %f (pi=3.14159)", r, M_PI * r * r, 2 * M_PI * r);
10    return 0;
11 }

```

```

1 // C program to set precision in floating point numbers
2 // using format specifier
3 #include <stdio.h>
4
5 int main()
6 {
7     float num = 5.4895323;
8     // 4 digits after the decimal point
9     printf("%0.4f", num);
10    return 0;
11 }

```

```

/* C Program to Print Elements in an Array */
#include <stdio.h>
void PrintArray(int arr[], int Start, int Size);
int main()
{
    int Array[50], i, Number;

    printf("\nPlease Enter Number of elements in an array : ");
    scanf("%d", &Number);

    printf("\nPlease Enter %d elements of an Array \n", Number);
    for (i = 0; i < Number; i++)
    {
        scanf("%d", &Array[i]);
    }

    printf("\n **** Element in this Array are : ****\n");
    PrintArray(Array, 0, Number);
    return 0;
}

void PrintArray(int arr[], int Start, int Size)
{
    if(Start >= Size)
    {
        return;
    }
    printf(" Element at Array[%d] = %d \n", Start, arr[Start]);
    PrintArray(arr, Start + 1, Size);
}

```

```

C:\Users\Suresh\Documents\C Programs\PrintArray4.exe
Please Enter Number of elements in an array : 4
Please Enter 4 elements of an Array
14 89 35 82

**** Element in this Array are : ****
Element at Array[0] = 14
Element at Array[1] = 89
Element at Array[2] = 35
Element at Array[3] = 82

```

Code	Meaning
\b	Backspace (delete the last character from cursor)
\f	Form feed
\n	New line
\r	Carriage return (same as \n except it remains in same line)
\t	Horizontal tab (prints a tab in output)
\"	Double quote (prints double quotes)
\'	Single quote
\\	Backslash
\v	Vertical tab
\a	Alert
\?	Question mark
\N	Octal constant (where N is an octal constant)
\xN	Hexadecimal constant (where N is a hexadecimal constant)

The used in the printf statements is called an escape sequence. We will look at how to use format specifiers to print formatted output onto the screen. In the fourth printf statement we want to print a float. Let us take a look at an example of printf formatted output (that why you here, isn't it?): #include main() { int a,b; float c,d; a = 15; b = a / 2; printf("%d\n", a); printf("%d\n", b); printf("%03d\n", b); c = 15.3; d = c / 3; printf("%3.2f\n", d); } Output of the source above: As you can see in the first printf statement we print a decimal. According to the Centers for Disease Control and Prevention, up to 2 million people in the United States are chronically affected with hepatitis B. Hepatitis C occurs more commonly in people who engage in intravenous drug use. Currently, there are an estimated 6 million people living with hepatitis in the United States, and more than 50,000 people are diagnosed with this disease every year. Variadic functions are functions (e.g. printf) which take a variable number of arguments. Let's recap: %d (print as a decimal integer) %f (print as a decimal floating point with a width of at least 6 wide) %f (print as a floating point) %4f (print as a floating point with a precision of four characters after the decimal point) %3.2f (print as a floating point at least 3 wide and a precision of 2) Formatting other Types Until now we only used integers and floats, but there are more types you can use. However, in most cases, treatments focus on proper hydration and nutrition. This virus is more common in places with underdeveloped sanitation systems. The topics covered are; a little printf background, format specifiers and conversions, formatting of different types and

format conversions of strings. Photo Courtesy: The Good Brigade/DigitalVision/Getty Images Hepatitis is a condition that causes inflammation of your liver. It can also cause liver cancer. While there’s no vaccine for chronic hepatitis C, treatments that are available offer a 95% cure rate.Chronic hepatitis C can significantly affect how your liver works. Although there are five types of viral hepatitis, only A, B and C are the forms commonly found in the United States.Resource Links:“Hepatitis A, B, and C: Learn the Differences,” Immunization Action Coalition“What’s the Difference Between Hepatitis A, B and C?,” UNC Health Talk“The ABCs of Hepatitis,” Centers for Disease Control and Prevention“What’s the Difference: Hepatitis B vs Hepatitis C?,” Hepatitis B Foundation MORE FROM SYMPTOMFIND.COM In this C programming language tutorial we take another look at the printf function. The printf(“%15.10s:”, “Hello, world!”); statement prints the string, but it does the exact same thing as the previous statement, except the “whitespace” is added at the end. After printing something to the screen you usually want to print something on the next line. If the string is smaller the “empty” positions will be filled with “whitespace.” But it will only print a maximum of 10 characters, thus only part of new string (old string plus the whitespace positions) is printed. Doctors can treat severe chronic hepatitis B with antiviral medications. There’s a safe vaccine available to protect you against hepatitis B, too.What Is Hepatitis C?Photo Courtesy: BSIP/Getty Images Approximately 4 million people in the United States are affected with hepatitis C. In this case it represents a newline character. It can cause cirrhosis, which means that your normal liver tissue is replaced with scar tissue. The printf function is just a useful function from the standard library of functions that are accessible by C programs. Commonly used escape sequences are: (newline) \t (tab) \v (vertical tab) \f (new page) \b (backspace) \r (carriage return) (newline) Let’s take another look at a printf formatted output in a more application like example: #include main() { int Fahrenheit; for (Fahrenheit = 0; Fahrenheit

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