



Format output function



catalogue

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introduction of output function

1.输出函数实例介绍



Function format:

`printf(Format control string, output list)`



Function function:

The value of each expression in the output list is output to the standard output device (display screen) according to the corresponding format in the format control string.



2

printf function format and function

2.printf function format and function



Format control string:

Format conversion specifier	Function description
%d	Output a decimal integer
%f	Output a single precision real number
%lf	Output a double precision real number
%e或%E	Output a real number in exponential format
%c	Output a character
%s	Output a string

2.printf function format and function

Output list:

The output list consists of output items separated by commas. The output items can be general expressions or simple variables, that is, variable names or expressions.

Examples:

```
printf( "%d ",a);  
printf( "%d ",a+b);
```



3 **printf function considerations**

3.printf function considerations



Note:

(1) The number and type of format conversion specifiers must correspond to the output list one by one.

```
printf( "%d%d" ,a,b);
```

(2) Escape characters and ordinary characters can be included in the format control string.

The escape character realizes the operation according to the specific function, and the ordinary character is output as it is.

语句编写

```
main()
{
    int a,b;
    scanf( "%d%d" ,&a,&b);
    printf("a=%d\tb=%d\n",a,b);
}
```

运行结果

```
2 3✓
a=2    b=3
```

3.printf function considerations



Note:

(3) Modifier m (positive integer): Specifies the width of the output item. When the specified width is less than the actual width, it is output according to the actual width. When the specified width is greater than the actual width, it is supplemented with a space in front.

(4) Modifier N (positive integer): Specify the number of decimal places (rounding) of the output real data. The system default is 6.

语句编写

```
main()
{
    float a=123.44;
    int b=12345;
    printf("%.1f,%.2f,%.6f\n",x,x,x);
    printf("%4d,%4d\n",a,b);
}
```

运行结果

```
123.4,123.44,123.440002
1234,12345
```

3.printf function considerations



注意说明:

- (5) **修饰符0 (数字)** : 指定数字前的空格用0填补。
- (6) **修饰符 -** : 指定输出项的对齐方式, 表示左对齐。

语句编写

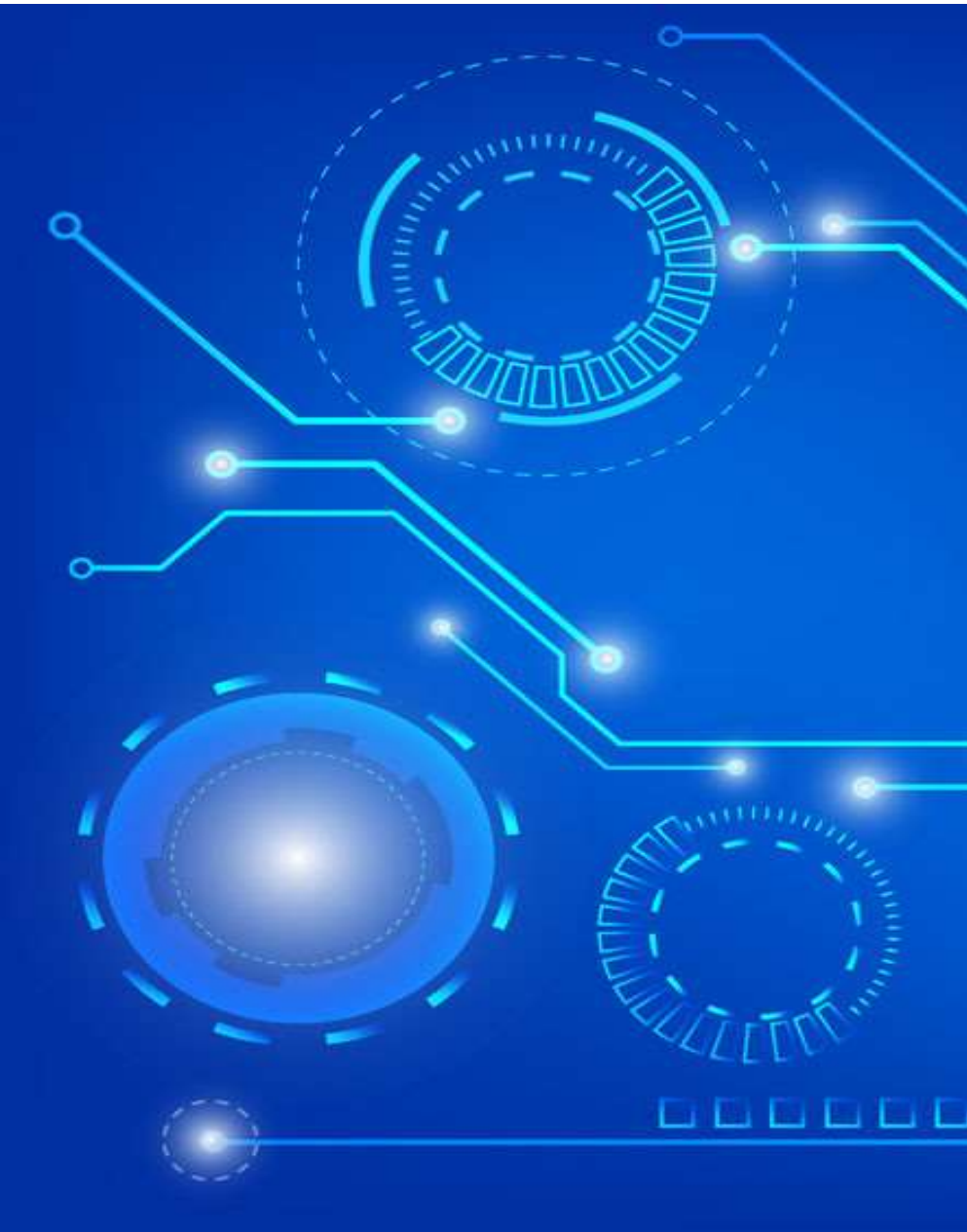
```
main()
{
    int a=123;
    printf("%04d\n",a);
}
```

运行结果

```
0123
```

Summary

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End