



- %d (or %i) int
- %c char
- %f float
- %lf double (long float)
- %s string
- %e scientific notation
- %x hexadecimal
- %o octal

```

/* print "the date is: 05.01.2006",
i.e. 2- or 4-digit with leading zeros*/
long lday = 5;
long lmonth = 1;
long lyear = 2006;
printf("the date is: %02d.%02d.%04d\n",lday,lmonth,lyear);
  
```

the date is: 05.01.2006

```

/* print double value like "70.35000" */
double dTemp = 70.35;
printf("temperature: %5.5f\n", dTemp);
  
```

temperature: 70.35000

```
printf("%0.5f", (1+sqrt(5))/2)
```

1.618

```
printf("%0.5f", 1/eps)
```

4.5036e+15

```
printf("%15.5f", 1/eps)
```

4503599627370496.00000

`printf("%d",round(pi))`

3

`printf("%s","hello")`

hello

`printf("The array is %dx%d.",2,3)`

The array is 2x3

`printf("\n")`

Line termination character on all platforms

```
long ulID = 0x12345678;  
printf("hex value: 0x%x \n", ulID);
```

hex value: 0x12345678

```
int  
main()  
{  
    int number=5;  
    char *pointer="little";
```

```
    printf("Here is a number %d and a %s word.\n", number,  
pointer);  
}
```

Here is a number 5 and a little word.

```
int  
main()
```

```

{
    int number=5;
    char *pointer="little";

    printf("Here is a number-%4d-and a [%10s] word.\n", number,
pointer);
}

```

Here is a number- 5-and a [little] word.

```

char *psz1 = "FooBar Inc. formerly known as Foo Bar Systems Corp.";
char *psz2 = "NY";
char *psz3 = "105000";
printf("company: %-10.10s | " /* continue on next line*/
      "location: %10.10s | " /* strings are joined by compiler.*/
      "turnover: %08s$\n",
      psz1,psz2,psz3
);

```

company: FooBar Inc | location: NY | turnover: 00105000\$

```

#include <stdio.h>

int main()
{
    int a = 72;
    char b = 'A';
    printf("a equals %d \n", a);
    printf("a equals %c \n", a);
    printf("b equals %d \n", b);
    printf("b equals %c \n", b);
}

a equals 72
a equals H
b equals 65
b equals A

```

```

#include <stdio.h>

int main() {
    printf("%c%c%c", 105, 111, 116);
}

```

```
printf("%c%c%c", 97, 45, 115);
printf("%c%c%c", 105, 120, 46);
printf("%c%c%c", 99, 111, 46);
printf("%c%c%c", 117, 107, 10);

    return 0;
}
```

```

int binarySearch(int sortedArray[], int first, int last, int key) {
    // function:
    // Searches sortedArray[first]..sortedArray[last] for key.
    // returns: index of the matching element if it finds key,
    //          otherwise -(index where it could be inserted)-1.
    // parameters:
    // sortedArray in array of sorted (ascending) values.
    // first, last in lower and upper subscript bounds
    // key      in value to search for.
    // returns:
    // index of key, or -insertion_position -1 if key is not
    //          in the array. This value can easily be
    //          transformed into the position to insert it.

    while (first <= last) {
        int mid = (first + last) / 2; // compute mid point.
        if (key > sortedArray[mid])
            first = mid + 1; // repeat search in top half.
        else if (key < sortedArray[mid])
            last = mid - 1; // repeat search in bottom half.
        else
            return mid; // found it. return position /////
    }
    return -(first + 1); // failed to find key
}

```

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