Take date as input in the following format.

01042016

```
scanf("%2d%2d%4d", &day, &month, &year); printf("%d %d %d\n", day, month, year);
```

Take date as input in the following format.

01042016

#### Solution

```
scanf("%2d%2d%4d", &day, &month, &year);
printf("%d %d %d\n", day, month, year);
```

Read 2 characters from input as integer.

Take date as input in the following format.

01042016

#### Solution

```
scanf("%2d%2d%4d", &day, &month, &year);
printf("%d %d %d\n", day, month, year);
```

Read 2 characters from input as integer.

Take date as input in the following format.

01042016

#### Solution

```
scanf("%2d%2d%4d", &day, &month, &year);
printf("%d %d %d\n", day, month, year);
```

Read 4 characters from input as integer.

Take date as input in the following format.

01042016

```
scanf("%2d%2d%4d", &day, &month, &year);
printf("%d %d %d\n", day, month, year);
```

```
$
```

Take date as input in the following format.

01042016

```
scanf("%2d%2d%4d", &day, &month, &year); printf("%d %d %d\n", day, month, year);
```

```
$ ./a.out ←
```

Take date as input in the following format.

01042016

```
scanf("%2d%2d%4d", &day, &month, &year);
printf("%d %d %d\n", day, month, year);
```

```
$ ./a.out ↓
31032016 ↓
```

Take date as input in the following format.

#### 01042016

```
scanf("%2d%2d%4d", &day, &month, &year);
printf("%d %d %d\n", day, month, year);
```

Read percentages from input.

50%

Read percentages from input.

50%

```
scanf("%d%%", &a);
printf("%d\n", a);
```

Read percentages from input.

50%

```
scanf("%d%%", &a);
printf("%d\n", a);
```

Read percentages from input.

50%

```
scanf("%d\%", &a);
printf("%d\n", a);
```

Read percentages from input.

50%

#### Solution

```
scanf("%d%%", &a);
printf("%d\n", a);
```

\$

Read percentages from input.

50%

```
scanf("%d%%", &a);
printf("%d\n", a);
```

```
$ ./a.out ↓
```

Read percentages from input.

50%

```
scanf("%d%%", &a);
printf("%d\n", a);
```

```
$ ./a.out ↓
200% ↓
```

Read percentages from input.

50%

```
scanf("%d%%", &a);
printf("%d\n", a);
```

```
$ ./a.out ↓
200% ↓
200
$
```

# Format String Input Output

# Format String Input Output

"%3f%2d"

# Format String Input Output "%3f%2d" 123456

"%3f%2d" 123456

Format String	Input	Output
"%3f%2d"	123456	123.000000 45

Format String	Input	Output
"%3f%2d"	123456	123.000000 45
"%3f %2d"		

Format String	Input	Output
"%3f%2d"	123456	123.000000 45
"%3f %2d"	123456	

Format String	Input	Output
"%3f%2d"	123456	123.000000 45
"%3f %2d"	123456	123.000000 45

Format String	input	Output
	100454	400 000000 45
"%3f%2d"	123456	123.000000 45
"%3f %2d"	123456	123.000000 45

Output

Innut

Earmat String

"%3s"

Format String	input	Output
"%3f%2d"	123456	123.000000 45
"%3f %2d"	123456	123.000000 45

Innut

123456

Output

Earmat String

"%3s"

Format String	Input	Output
"%3f%2d"	123456	123.000000 45
"%3f %2d"	123456	123.000000 45
"%3s"	123456	123

Format String	Input	Output
"%3f%2d"	123456	123.000000 45

123.000000 45

123

"%3f %2d" 123456

123456

"%3s"

"%3d%3s %c%f"

"%3f%2d"	123456	123.000000 45
"%3f %2d"	123456	123.000000 45
"%3s"	123456	123

Output

Input

123 456 789 012

**Format String** 

"%3d%3s %c%f"

"%3f%2d"	123456	123.000000 45
"%3f %2d"	123456	123.000000 45
"%3s"	123456	123

123 456 789 012

Output

123 456 7 89.000000

Input

Format String

"%3d%3s %c%f"



```
char *str = "hello, world";
printf(":%s:\n", str);
```



```
char *str = "hello, world";
printf(":%s:\n", str);
```

```
$ ./a.out ↩
```

```
char *str = "hello, world";
printf(":%s:\n", str);
```

```
$ ./a.out ↓
:hello,∟world:
```

```
char *str = "hello, world";
printf(":%s:\n", str);
printf(":%15s:\n", str);
```

```
$ ./a.out ↓
:hello,_world:
```

```
char *str = "hello, world";
printf(":%s:\n", str);
printf(":%15s:\n", str);
```

```
$ ./a.out ←
:hello,_world:
```

```
char *str = "hello, world";
printf(":%s:\n", str);
printf(":%15s:\n", str);
```

```
$ ./a.out ←
:hello,_world:
:___hello,_world:
```

```
char *str = "hello, world";
printf(":%s:\n", str);
printf(":%15s:\n", str);
printf(":%10s:\n", str);
```

```
char *str = "hello, world";
printf(":%s:\n", str);
printf(":%15s:\n", str);
printf(":%10s:\n", str);
```

```
$ ./a.out ←
:hello,_world:
:___hello,_world:
:hello,_world:
```

```
char *str = "hello, world";
printf(":%s:\n", str);
printf(":%15s:\n", str);
printf(":%10s:\n", str);
printf(":%-15s:\n", str);
number - min. width
```

```
$ ./a.out ←
:hello,_world:
:___hello,_world:
:hello,_world:
```

```
char *str = "hello, world";
printf(":%s:\n", str);
printf(":%15s:\n", str);
printf(":%10s:\n", str);
printf(":%-15s:\n", str);
minus - adjust left
```

```
$ ./a.out \( \rightarrow\)
:hello,_world:
:hello,_world:
:hello,_world:
```

```
char *str = "hello, world";
printf(":%s:\n", str);
printf(":%15s:\n", str);
printf(":%10s:\n", str);
printf(":%-15s:\n", str);
minus - adjust left
```

```
$ ./a.out ←
:hello,_world:
:___hello,_world:
:hello,_world:
:hello,_world___:
```

```
char *str = "hello, world";
printf(":%s:\n", str);
printf(":%15s:\n", str);
printf(":%-15s:\n", str);
printf(":%-15s:\n", str);
printf(":%.10s:\n", str);
minus - adjust left
```

```
$ ./a.out \( \rightarrow\)
:hello,_world:
:hello,_world:
:hello,_world:
:hello,_world___:
```

```
$ ./a.out ←
:hello,_world:
:___hello,_world:
:hello,_world:
:hello,_world___:
```

```
$ ./a.out ←
:hello,_world:
:__hello,_world:
:hello,_world:
:hello,_world___:
:hello,_wor:
```

```
char *str = "hello, world";
printf(":%s:\n", str);
printf(":%15s:\n", str);
printf(":%10s:\n", str);
printf(":%-15s:\n", str);
printf(":%.10s:\n", str);
printf(":%15.10s:\n", str);
printf(":%15.10s:\n", str);
.number - max. characters
```

```
$ ./a.out ←
:hello,_world:
:__hello,_world:
:hello,_world:
:hello,_world___:
:hello,_wor:
```

```
char *str = "hello, world";
printf(":%s:\n", str);
printf(":%15s:\n", str);
printf(":%10s:\n", str);
printf(":%-15s:\n", str);
printf(":%.10s:\n", str);
printf(":%15.10s:\n", str);
printf(":%15.10s:\n", str);
.number - max. characters
```

```
$ ./a.out ←
:hello,_world:
:___hello,_world:
:hello,_world:
:hello,_world___:
:hello,_wor:
:____hello,_wor:
```

```
char *str = "hello, world";
printf(":%s:\n", str);
printf(":%15s:\n", str);
printf(":%10s:\n", str);
printf(":%-15s:\n", str);
printf(":%.10s:\n", str);
printf(":%15.10s:\n", str);
printf(":%-15.10s:\n", str);
.number - max. characters
printf(":%-15.10s:\n", str);
```

```
$ ./a.out \( \)
:hello,_world:
:__hello,_world:
:hello,_world___:
:hello,_wor:
:__hello,_wor:
```

```
char *str = "hello, world";
printf(":%s:\n", str);
printf(":%15s:\n", str);
                          number - min. width
printf(":%10s:\n", str);
printf(":%-15s:\n", str);
                           minus - adjust left
printf(":%.10s:\n", str);
printf(":%-15.10s:\n", str);
  $ ./a.out ∠
  :hello,_world:
```



```
printf(":%d:\n", a);
```

```
int a = 12;
printf(":%d:\n", a);
  $ ./a.out ←
```

```
$ ./a.out ←
:12:
```

 $printf(":%d:\n", a);$ 

```
int a = 12;
printf(":%d:\n", a);
printf(":%3d:\n", a);
  $ ./a.out ∠
   :12:
```

```
int a = 12;
printf(":%d:\n", a);
printf(":%3d:\n", a);
```



```
int a = 12;
printf(":%d:\n", a);
printf(":%3d:\n", a);
```

```
$ ./a.out ↓
:12:
:∟12:
```

```
int a = 12;
printf(":%d:\n", a);
printf(":%3d:\n", a);
printf(":%1d:\n", a);
```

```
$ ./a.out ↓
:12:
:∟12:
```

```
int a = 12;
printf(":%d:\n", a);
printf(":%3d:\n", a);
printf(":%1d:\n", a);
```

```
$ ./a.out ↓
:12:
:_12:
:12:
```

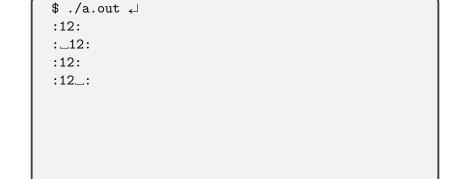
```
int a = 12;
printf(":%d:\n", a);
printf(":%3d:\n", a);
printf(":%-3d:\n", a);
printf(":%-3d:\n", a);
number - min. width
```

```
$ ./a.out ↓|
:12:
:__12:
:_12:
```

```
$ ./a.out ↓|
:12:
:__12:
:_12:
```

```
$ ./a.out ↓|
:12:
:__12:
:_12:
:12_:
```

```
int a = 12;
printf(":%d:\n", a);
printf(":%3d:\n", a);
printf(":%-3d:\n", a);
printf(":%-3d:\n", a);
printf(":%.3d:\n", a);
minus - adjust left
```



```
number - min. width
printf(":%1d:\n", a);
printf(":%-3d:\n", a);
                                  minus - adjust left
printf(":%.3d:\n", a);
                                .number - min. digits, pad 0
   $ ./a.out ←
   :12:
   :_12:
   :12:
   :12_:
```

printf(":%d:\n", a);
printf(":%3d:\n", a);

```
number - min. width
printf(":%1d:\n", a);
printf(":%-3d:\n", a);
                                  minus - adjust left
printf(":%.3d:\n", a);
                                .number - min. digits, pad 0
   $ ./a.out ←
   :12:
   :_12:
   :12:
   :12_:
   :012:
```

printf(":%d:\n", a);
printf(":%3d:\n", a);

```
printf(":%3d:\n", a);
                                 number - min width
printf(":%1d:\n", a);
printf(":%-3d:\n", a);
                                  minus - adjust left
printf(":%.3d:\n", a);
printf(":%.4d:\n", a);
                                .number - min. digits, pad 0
   $ ./a.out ∠
   :12:
   :_12:
   :12:
   :12_:
   :012:
```

printf(":%d:\n", a);

```
printf(":%3d:\n", a);
                                 number - min width
printf(":%1d:\n", a);
printf(":%-3d:\n", a);
                                  minus - adjust left
printf(":%.3d:\n", a);
printf(":%.4d:\n", a);
                                .number - min. digits, pad 0
   $ ./a.out ∠
   :12:
   :_12:
   :12:
   :12 ::
   :012:
   :0012:
```

printf(":%d:\n", a);

```
printf(":%d:\n", a);
printf(":%3d:\n", a);
                                 number – min. width
printf(":%1d:\n", a);
printf(":%-3d:\n", a);
                                  minus - adjust left
printf(":%.3d:\n", a);
printf(":%.4d:\n", a);
                                .number - min. digits, pad 0
printf(":%-4d:\n", a);
   $ ./a.out ∠
   :12:
   :_12:
   :12:
   :12 ::
   :012:
   :0012:
```

```
printf(":%d:\n", a);
printf(":%3d:\n", a);
                                 number – min. width
printf(":%1d:\n", a);
printf(":%-3d:\n", a);
                                  minus - adjust left
printf(":%.3d:\n", a);
printf(":%.4d:\n", a);
                                .number - min. digits, pad 0
printf(":%-4d:\n", a);
   $ ./a.out ∠
   :12:
   :_12:
   :12:
   :12 ::
   :012:
   :0012:
   :12__:
```

```
printf(":%d:\n", a);
printf(":%3d:\n", a);
                                 number – min. width
printf(":%1d:\n", a);
printf(":%-3d:\n", a);
                                  minus - adjust left
printf(":%.3d:\n", a);
printf(":%.4d:\n", a);
                                .number - min. digits, pad 0
printf(":\%-4d:\n", a);
printf(":%4.3d:\n", a);
  $ ./a.out ∠
   :12:
   :_12:
   :12:
   :12 ::
   :012:
   :0012:
   :12__:
```

```
printf(":%3d:\n", a);
                                 number – min. width
printf(":%1d:\n", a);
printf(":%-3d:\n", a);
                                  minus - adjust left
printf(":%.3d:\n", a);
printf(":%.4d:\n", a);
                                .number - min. digits, pad 0
printf(":\%-4d:\n", a);
printf(":%4.3d:\n", a);
  $ ./a.out ∠
   :12:
   :_12:
   :12:
   :12 ::
   :012:
   :0012:
   :12__:
   :_012:
```

int a = 12:

printf(":%d:\n", a);

```
printf(":%d:\n", a);
printf(":%3d:\n", a);
                                 number – min. width
printf(":%1d:\n", a);
printf(":%-3d:\n", a);
                                  minus - adjust left
printf(":%.3d:\n", a);
printf(":%.4d:\n", a);
                                .number - min. digits, pad 0
printf(":\%-4d:\n", a);
printf(":%4.3d:\n", a);
printf(":%-4.3d:\n", a);
  $ ./a.out ∠
   :12:
   :_12:
   :12:
   :12 ::
   :012:
   :0012:
   :12__:
   :_012:
```

int a = 12:

```
int a = 12:
printf(":%d:\n", a);
printf(":%3d:\n", a);
                                 number – min. width
printf(":%1d:\n", a);
printf(":%-3d:\n", a);
                                  minus - adjust left
printf(":%.3d:\n", a);
printf(":%.4d:\n", a);
                                .number - min. digits, pad 0
printf(":\%-4d:\n", a);
printf(":%4.3d:\n", a);
printf(":%-4.3d:\n", a);
  $ ./a.out ∠
   :12:
   :_12:
   :12:
   :12 ::
   :012:
   :0012:
   :12__:
   :_012:
   :012 :
```



```
float f = 12.4356;
printf(":%f:\n", f);
```



```
float f = 12.4356;
printf(":%f:\n", f);
  $ ./a.out ←
```

```
printf(":\%f:\n", f);
  $ ./a.out ←
   :12.435600:
```

```
printf(":%10f:\n", f);
  $ ./a.out ←
   :12.435600:
```

float f = 12.4356; printf(":%f:\n", f);

```
float f = 12.4356; printf(":%f:\n", f); printf(":%10f:\n", f);
```

```
$ ./a.out ← :12.435600:
```

```
float f = 12.4356; printf(":%f:\n", f); printf(":%10f:\n", f);
```

```
$ ./a.out ↓|
:12.435600:
:_12.435600:
```

```
float f = 12.4356;
printf(":%f:\n", f);
printf(":%10f:\n", f);
printf(":%5f:\n", f);
```

```
$ ./a.out ↓|
:12.435600:
:_12.435600:
```

```
float f = 12.4356;
printf(":%f:\n", f);
printf(":%10f:\n", f);
printf(":%5f:\n", f);
```

```
$ ./a.out ←
:12.435600:
: _12.435600:
:12.435600:
```

```
float f = 12.4356;
printf(":%f:\n", f);
printf(":%10f:\n", f);
printf(":%5f:\n", f);
printf(":%-10f:\n", f);
number - min. width
```

```
$ ./a.out ∠
:12.435600:
:_12.435600:
:12.435600:
```

```
float f = 12.4356;
printf(":%f:\n", f);
printf(":%10f:\n", f);
printf(":%5f:\n", f);
printf(":%-10f:\n", f);
minus - adjust left
```

```
$ ./a.out ↓
:12.435600:
:_12.435600:
:12.435600:
```

```
float f = 12.4356;
printf(":%f:\n", f);
printf(":%10f:\n", f);
printf(":%5f:\n", f);
printf(":%-10f:\n", f);
minus - adjust left
```

```
$ ./a.out 4
:12.435600:
:_12.435600:
:12.435600_:
```

```
float f = 12.4356;
printf(":%f:\n", f);
printf(":%10f:\n", f);
printf(":%5f:\n", f);
printf(":%-10f:\n", f);
printf(":%.3f:\n", f);
minus - adjust left
```

```
$ ./a.out 4
:12.435600:
:_12.435600:
:12.435600_:
```

```
printf(":%5f:\n", f);
printf(":%-10f:\n", f);
                                  minus - adjust left
printf(":%.3f:\n", f);
                                .number - max. decimal digits
   $ ./a.out ∠
   :12.435600:
   : 12.435600:
   :12.435600:
   :12.435600 :
```

float f = 12.4356;
printf(":%f:\n", f);
printf(":%10f:\n", f);

```
printf(":%5f:\n", f);
printf(":%-10f:\n", f);
                                  minus - adjust left
printf(":%.3f:\n", f);
                                .number - max. decimal digits
   $ ./a.out ↓
   :12.435600:
   : 12.435600:
   :12.435600:
   :12.435600 :
   :12.436:
```

float f = 12.4356;
printf(":%f:\n", f);
printf(":%10f:\n", f);

```
printf(":\%f:\n", f);
printf(":%10f:\n", f);
                                number - min. width
printf(":%5f:\n", f);
printf(":%-10f:\n", f);
                                  minus - adjust left
printf(":%.3f:\n", f);
printf(":%-4f:\n", f);
                                .number - max. decimal digits
   $ ./a.out ↓
   :12.435600:
   : 12.435600:
   :12.435600:
   :12.435600 :
   :12.436:
```

```
printf(":\%f:\n", f);
printf(":%10f:\n", f);
                                number - min. width
printf(":%5f:\n", f);
printf(":%-10f:\n", f);
                                  minus - adjust left
printf(":%.3f:\n", f);
printf(":%-4f:\n", f);
                                .number - max. decimal digits
   $ ./a.out ↓
   :12.435600:
   : 12.435600:
   :12.435600:
   :12.435600 :
   :12.436:
   :12.4356:
```

```
printf(":%10f:\n", f);
                                number - min. width
printf(":%5f:\n", f);
printf(":%-10f:\n", f);
                                  minus - adjust left
printf(":%.3f:\n", f);
printf(":%-4f:\n", f);
                               .number - max. decimal digits
printf(":%10.3f:\n", f);
   $ ./a.out ↓
   :12.435600:
   : 12.435600:
   :12.435600:
   :12.435600 :
   :12.436:
   :12.4356:
```

float f = 12.4356; printf(":%f:\n", f);

```
printf(":%10f:\n", f);
                                number - min. width
printf(":%5f:\n", f);
printf(":%-10f:\n", f);
                                  minus - adjust left
printf(":%.3f:\n", f);
printf(":%-4f:\n", f);
                               .number - max. decimal digits
printf(":%10.3f:\n", f);
   $ ./a.out ↓
   :12.435600:
   : 12.435600:
   :12.435600:
   :12.435600 :
   :12.436:
   :12.4356:
   :____12.436:
```

float f = 12.4356; printf(":%f:\n", f);

```
printf(":\%f:\n", f);
printf(":%10f:\n", f);
                                number - min. width
printf(":%5f:\n", f);
printf(":%-10f:\n", f);
                                  minus - adjust left
printf(":\%.3f:\n", f);
printf(":%-4f:\n", f);
                                .number - max. decimal digits
printf(": 10.3f: n", f);
printf(":%-10.3f:\n", f);
  $ ./a.out ↓
   :12.435600:
   : 12.435600:
   :12.435600:
   :12.435600 :
   :12.436:
   :12.4356:
   :____12.436:
```

```
printf(":\%f:\n", f);
printf(":%10f:\n", f);
                                number - min. width
printf(":%5f:\n", f);
printf(":%-10f:\n", f);
                                 minus - adjust left
printf(":%.3f:\n", f);
printf(":%-4f:\n", f);
                               .number - max. decimal digits
printf(":\%10.3f:\n", f);
printf(":%-10.3f:\n", f);
  $ ./a.out ↓
   :12.435600:
   : 12.435600:
   :12.435600:
   :12.435600 :
   :12.436:
   :12.4356:
   :___12.436:
   :12.436___:
```

char \*str = "hello, world";

\$		

```
char *str = "hello, world";
printf(":%*.*s:\n", 10, 3, str);
```

```
$
```

```
char *str = "hello, world";
printf(":%*.*s:\n", 10, 3, str);
```

```
$
```

```
char *str = "hello, world";
printf(":%*.*s:\n", 10, 3, str);
```

```
$ ./a.out ↓
```

```
char *str = "hello, world";
printf(":%*.*s:\n", 10, 3, str);
```

```
$ ./a.out ← :____hel:
```

```
char *str = "hello, world";
printf(":%*.*s:\n", 10, 3, str);
printf(":%-*.*s:\n", 10, 3, str);
```

```
$ ./a.out ← :____hel:
```

```
char *str = "hello, world";
printf(":%*.*s:\n", 10, 3, str);
printf(":%-*.*s:\n", 10, 3, str);
```

```
$ ./a.out ←
:....hel:
:hel....:
```

```
char *str = "hello, world";
printf(":%*.*s:\n", 10, 3, str);
printf(":%-*.*s:\n", 10, 3, str);
int a = 10, b = 3;
```

```
$ ./a.out ←
:____hel:
:hel____:
```

```
char *str = "hello, world";
printf(":%*.*s:\n", 10, 3, str);
printf(":%-*.*s:\n", 10, 3, str);
int a = 10, b = 3;
printf(":%*.*s:\n", a, b, str);
  $ ./a.out ↓
```

```
char *str = "hello, world";
printf(":%*.*s:\n", 10, 3, str);
printf(":%-*.*s:\n", 10, 3, str);
int a = 10, b = 3;
printf(":%*.*s:\n", a, b, str);
  $ ./a.out ↓
```

```
char *str = "hello, world\n";
```

```
$
```

```
char *str = "hello, world\n";
printf(str);
```

```
$
```

```
char *str = "hello, world\n";
printf(str);
```

```
$ ./a.out ←
```

```
char *str = "hello, world\n";
printf(str);
```

```
$ ./a.out ↓
hello, world
```

```
\label{eq:char_str} \begin{array}{l} \texttt{char *str = "hello, world} \\ \texttt{n";} \\ \texttt{printf(str);} \end{array}
```

 Format string need not be fixed.

```
$ ./a.out ↓ hello, world
```

```
char *str = "hello, world %d\n";
printf(str);
```

 Format string need not be fixed.

```
$ ./a.out ↓
hello, world
```

```
char *str = "hello, world %d\n";
printf(str, 10);
```

```
    Format string
need not be
fixed.
```

```
$ ./a.out ↓
hello, world
```

```
char *str = "hello, world %d\n"; printf(str, 10);
```

 Format string need not be fixed.

```
$ ./a.out ← hello, world 10
```

```
char *str = "hello, %s world\n";
printf(str);
```

- Format string need not be fixed.
- First argument is always format string.

```
$ ./a.out ↓
```

```
char *str = "hello, %s world\n";
printf(str, "\n");
```

- Format string need not be fixed.
- First argument is always format string.

```
$ ./a.out ←
```

```
char *str = "hello, %s world\n";
printf(str, "\n");
```

- Format string need not be fixed.
- First argument is always format string.

```
$ ./a.out ↓
hello,
world
```

```
char *str = "hello, %s world\n";
printf(str, str);
```

- Format string need not be fixed.
- First argument is always format string.

```
$ ./a.out ↓
```

```
char *str = "hello, %s world\n";
printf(str, str);
```

- Format string need not be fixed.
- First argument is always format string.

```
$ ./a.out ↓
hello, hello, %s world
world
```

```
getchar(), putchar()
#include <stdio.h>
int main(void)
   return 0;
```

```
getchar(), putchar()
#include <stdio.h>
int main(void)
   int c;
   return 0;
```

```
getchar(), putchar()
#include <stdio.h>
int main(void)
   int c;
           c = getchar()
   return 0;
```

```
getchar(), putchar()
#include <stdio.h>
int main(void)
   int c;
          (c = getchar()) != EOF
   return 0;
```

```
getchar(), putchar()
```

```
int main(void)
{
   int c;
   while ((c = getchar()) != EOF)
   return 0;
}
```

#include <stdio.h>

```
getchar(), putchar()
```

```
int main(void)
{
   int c;
   while ((c = getchar()) != EOF)
        putchar(tolower(c));
   return 0;
}
```

#include <stdio.h>

```
getchar(), putchar()
```

```
#include <stdio.h>
#include <ctype.h>
int main(void)
    int c;
    while ((c = getchar()) != EOF)
        putchar(tolower(c));
    return 0;
```

```
#include <stdio.h>
#include <ctype.h>
int main(void)
    int c;
    while ((c = getchar()) != EOF)
        putchar(tolower(c));
    return 0;
```

Returns	Туре

```
#include <stdio.h>
#include <ctype.h>
int main(void)
    int c;
    while ((c = getchar()) != EOF)
        putchar(tolower(c));
    return 0;
```

Returns	Туре
	Returns

```
#include <stdio.h>
#include <ctype.h>
int main(void)
    int c;
    while ((c = getchar()) != EOF)
        putchar(tolower(c));
    return 0;
```

	Returns	Туре
getchar()	Character read or EOF	

```
#include <stdio.h>
#include <ctype.h>
int main(void)
    int c;
    while ((c = getchar()) != EOF)
        putchar(tolower(c));
    return 0;
```

	Returns	Туре
getchar()	Character read or EOF	int

```
#include <stdio.h>
#include <ctype.h>
int main(void)
    int c;
    while ((c = getchar()) != EOF)
        putchar(tolower(c));
    return 0;
```

	Returns	Туре
getchar()	Character read or EOF	int
<pre>putchar()</pre>		

```
#include <stdio.h>
#include <ctype.h>
int main(void)
    int c;
    while ((c = getchar()) != EOF)
        putchar(tolower(c));
    return 0;
```

	Returns	Туре
getchar()	Character read or EOF	int
<pre>putchar()</pre>	Character written or EOF	

```
#include <stdio.h>
#include <ctype.h>
int main(void)
    int c;
    while ((c = getchar()) != EOF)
        putchar(tolower(c));
    return 0;
```

	Returns	Туре
getchar()	Character read or EOF	int
<pre>putchar()</pre>	Character written or EOF	int