

NAME

isprint, **isprint_l** - printing character test (space character inclusive)

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

```
#include <ctype.h>
```

int

```
isprint(int c);
```

int

```
isprint_l(int c, locale_t loc);
```

DESCRIPTION

The **isprint()** and **isprint_l()** functions test for any printing character, including space (‘ ’). The value of the argument must be representable as an *unsigned char* or the value of EOF.

In the ASCII character set, this includes the following characters (with their numeric values shown in octal):

| | | | | |
|---------|---------|---------|---------|----------|
| 040 sp | 041 “!” | 042 “”” | 043 “#” | 044 “\$” |
| 045 “%” | 046 “&” | 047 “”” | 050 “(” | 051 “)” |
| 052 “*” | 053 “+” | 054 “,” | 055 “-” | 056 “.” |
| 057 “/” | 060 “0” | 061 “1” | 062 “2” | 063 “3” |
| 064 “4” | 065 “5” | 066 “6” | 067 “7” | 070 “8” |
| 071 “9” | 072 “:” | 073 “;” | 074 “<” | 075 “=” |
| 076 “>” | 077 “?” | 100 “@” | 101 “A” | 102 “B” |
| 103 “C” | 104 “D” | 105 “E” | 106 “F” | 107 “G” |
| 110 “H” | 111 “I” | 112 “J” | 113 “K” | 114 “L” |
| 115 “M” | 116 “N” | 117 “O” | 120 “P” | 121 “Q” |
| 122 “R” | 123 “S” | 124 “T” | 125 “U” | 126 “V” |
| 127 “W” | 130 “X” | 131 “Y” | 132 “Z” | 133 “[” |
| 134 “\” | 135 “]” | 136 “^” | 137 “_” | 140 “”” |
| 141 “a” | 142 “b” | 143 “c” | 144 “d” | 145 “e” |
| 146 “f” | 147 “g” | 150 “h” | 151 “i” | 152 “j” |
| 153 “k” | 154 “l” | 155 “m” | 156 “n” | 157 “o” |
| 160 “p” | 161 “q” | 162 “r” | 163 “s” | 164 “t” |
| 165 “u” | 166 “v” | 167 “w” | 170 “x” | 171 “y” |

172 “z” 173 “{” 174 “|” 175 “}” 176 “~”

The **isprint_l()** function takes an explicit locale argument, whereas the **isprint()** function uses the current global or per-thread locale.

RETURN VALUES

The **isprint()** and **isprint_l()** functions return zero if the character tests false and return non-zero if the character tests true.

COMPATIBILITY

The 4.4BSD extension of accepting arguments outside of the range of the *unsigned char* type in locales with large character sets is considered obsolete and may not be supported in future releases. The **iswprint()** or **iswprint_l()** function should be used instead.

SEE ALSO

`ctype(3)`, `ctype_l(3)`, `iswprint(3)`, `iswprint_l(3)`, `xlocale(3)`, `ascii(7)`

STANDARDS

The **isprint()** function conforms to ISO/IEC 9899:1990 ("ISO C90").

HISTORY

The **isprint()** function first appeared in Version 7 AT&T UNIX.