

# Character Processing (1A)

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# Character Classification

| Byte character | Wide Character | Description  |
|----------------|----------------|--|
| isalnum        | swalnum        | checks if a byte/wchar_t is alphanumeric                     |
| isalpha        | iswalpha       | checks if a byte/wchar_t is alphabetic                       |
| islower        | iswlower       | checks if a byte/wchar_t is lowercase                        |
| isupper        | iswupper       | checks if a byte/wchar_t is an uppercase byte/wchar_t        |
| isdigit        | iswdigit       | checks if a byte/wchar_t is a digit                          |
| isxdigit       | iswxdigit      | checks if a byte/wchar_t is a hexadecimal byte/wchar_t       |
| isctrl         | iswcntrl       | checks if a byte/wchar_t is a control byte/wchar_t           |
| isgraph        | iswgraph       | checks if a byte/wchar_t is a graphical byte/wchar_t         |
| isspace        | iswspace       | checks if a byte/wchar_t is a space byte/wchar_t             |
| isblank        | iswblank       | checks if a byte/wchar_t is a blank byte/wchar_t (C99/C++11) |
| isprint        | iswprint       | checks if a byte/wchar_t is a printing byte/wchar_t          |
| ispunct        | iswpunct       | checks if a byte/wchar_t is a punctuation byte/wchar_t       |
| tolower        | tolower        | converts a byte/wchar_t to lowercase                         |
| toupper        | toupper        | converts a byte/wchar_t to uppercase                         |
| N/A            | iswctype       | checks if a wchar_t falls into specific class                |
| N/A            | towctrans      | converts a wchar_t using a specific mapping                  |
| N/A            | wctype         | returns a wide character class to be used with iswctype      |
| N/A            | wctrans        | returns a transformation mapping to be used with towctrans   |







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