IOstream Library

Manipulators < iomanip>:

boolalpha Alphanumerical bool values

dec Use decimal base

endl Insert newline and flush ends Insert null character fixed Use fixed-point notation flush Flush stream buffer Use hexadecimal base

internal Adjust field by inserting characters at an internal position

left Adjust output to the left

noboolalpha No alphanumerical bool values

noshowbase Do not show numerical base prefixes

noshowpointDo not show decimal pointnoshowposDo not show positive signsnoskipwsDo not skip whitespaces

nounitbuf Do not force flushes after insertions **nouppercase** Do not generate upper case letters

oct Use octal base resetiosflags Reset format flags

right Adjust output to the right scientific Use scientific notation setbase Set basefield flag setfill Set fill character setiosflags Set format flags setprecision Set decimal precision

setw Set field width

showbase Show numerical base prefixes

showpointShow decimal pointshowposShow positive signsskipwsSkip whitespaces

unitbuf Flush buffer after insertions **uppercase** Generate upper-case letters

ws Extract whitespaces