

122#1201	initial string
\$122#1201	insert first \$
\$\$122#1201	insert second \$
\$\$122#1201>	initialize comparison to $X > Y$
\$\$12c#120b>	compare 2 with 1, $X > Y$
\$\$1cc#12ab>	compare 2 with 0, $X > Y$
\$\$bcc#1cab<	compare 1 with 2, $X < Y$
\$\$bcc#bcab<	compare 0 with 1, $X < Y$
\$\$122#1201#	unmark X & Y, replace < with #
\$\$b22#1201#1	move 1 from X to end of tape
\$\$bc2#1201#12	move 2 from X to end of tape
\$\$bcc#1201#122	move 2 from X to end of tape
\$\$bcc#1201#122#	X moved to end of tape, add # after it to mark where X-Y goes
\$\$bcc\$1201#122#	change the # after original X to \$
\$\$bcc\$120b#12c#2	perform subtraction $1 - 2$, insert result of 2 after # need to borrow
\$\$bcc\$112b#12c#2	after borrow
\$\$bcc\$11cb#1cc#02	perform subtraction $2 - 2$, insert result of 0 after #
\$\$bcc\$1bcb#bcc#002	perform subtraction $1 - 1$, insert result of 0 after #
\$\$bcc\$bbcb#bcc#1002	perform subtraction $1 - 0$, insert result of 1 after #
\$\$bcc\$bbcb#bcc-1002	replace # with - in front of the result, since symbol to the left of the right most \$ is not \$