

- ROLL DOWN, ROLL UP, X EXCH Y
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R↓ (roll down), R↑ (roll up),

↓
 and X><Y(X exchange Y).

R↓ and R↑ roll the contents of

↓
 the stack registers up or down one register(one value moves between the X- and the T-register). No values are lost. X><Y exchanges the numbers in the X- and Y-registers. If the stack were loaded with the sequence 1, 2, 3, 4, the following shifts would result from pressing R↓, R↑, and X><Y.

↓
 |-----| |-----|
 T 1- |-----| |-> 4 -|-----| -> 1
 Z 2- |-----| |-> 1 -|-----| -> 2
 Y 3- |-----| |-> 2 -|-----| |-> 3
 X 4- |-----| |-> 3 -|-----| |-> 4

Keys: R↓ g R↑
 ↓ |

T 1 -----> 1
 Z 2 -----> 2
 Y 3 ---| |-> 4
 X 4 -| | |-> 3
 |-----|

Keys: X><Y