

Allowed operations

sa : swap a - swap the first 2 elements at the top of stack a. Do nothing if there is only one or no elements).

sb : swap b - swap the first 2 elements at the top of stack b. Do nothing if there is only one or no elements).

ss : sa and sb at the same time.

pa : push a - take the first element at the top of b and put it at the top of a. Do nothing if b is empty.

pb : push b - take the first element at the top of a and put it at the top of b. Do nothing if a is empty.

ra : rotate a - shift up all elements of stack a by 1. The first element becomes the last one.

rb : rotate b - shift up all elements of stack b by 1. The first element becomes the last one.

rr : ra and rb at the same time.

rra : reverse rotate a - shift down all elements of stack a by 1. The last element becomes the first one.

rrb : reverse rotate b - shift down all elements of stack b by 1. The last element becomes the first one.

rrr : rra and rrb at the same time.