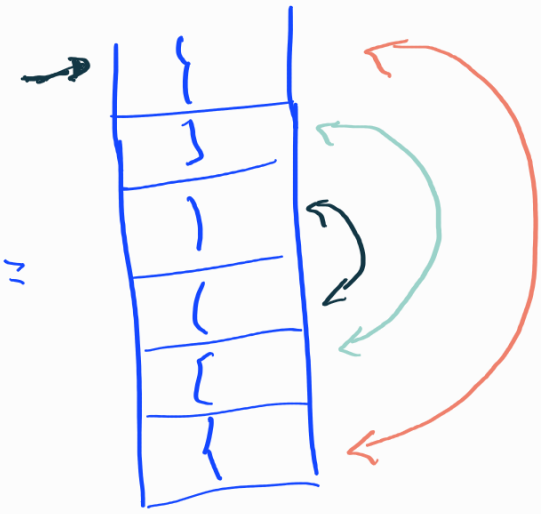
$S = \text{"}\{3 + [4 \times (7+2)]/5\}\text{"}$ True

$S1 = \text{"}\{3 + [4 \times (7+2)\}\ ]\text{"}$ False

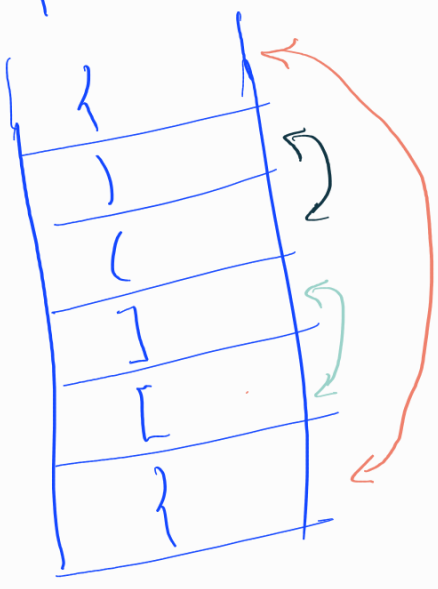
$S2 = \text{"}\{[\ (\ )\ ]\}\text{"}$

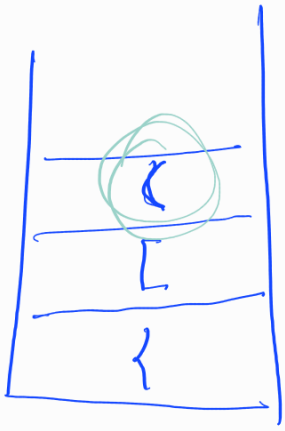
$S_3 = \text{"}\{[\ ]\ (\ )\}\text{"}$

$stack_2 =$

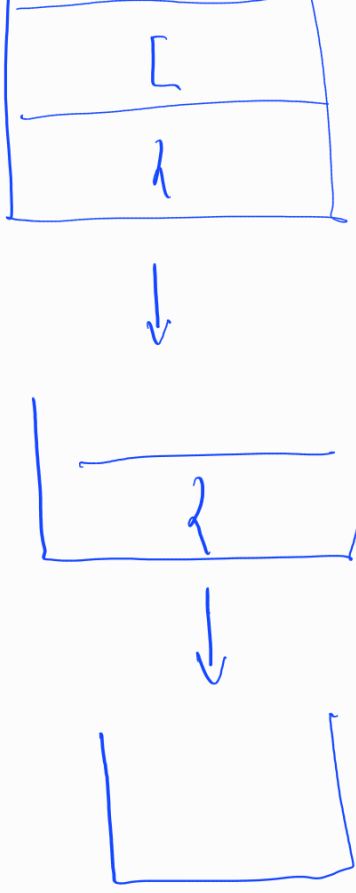


$stack_3$

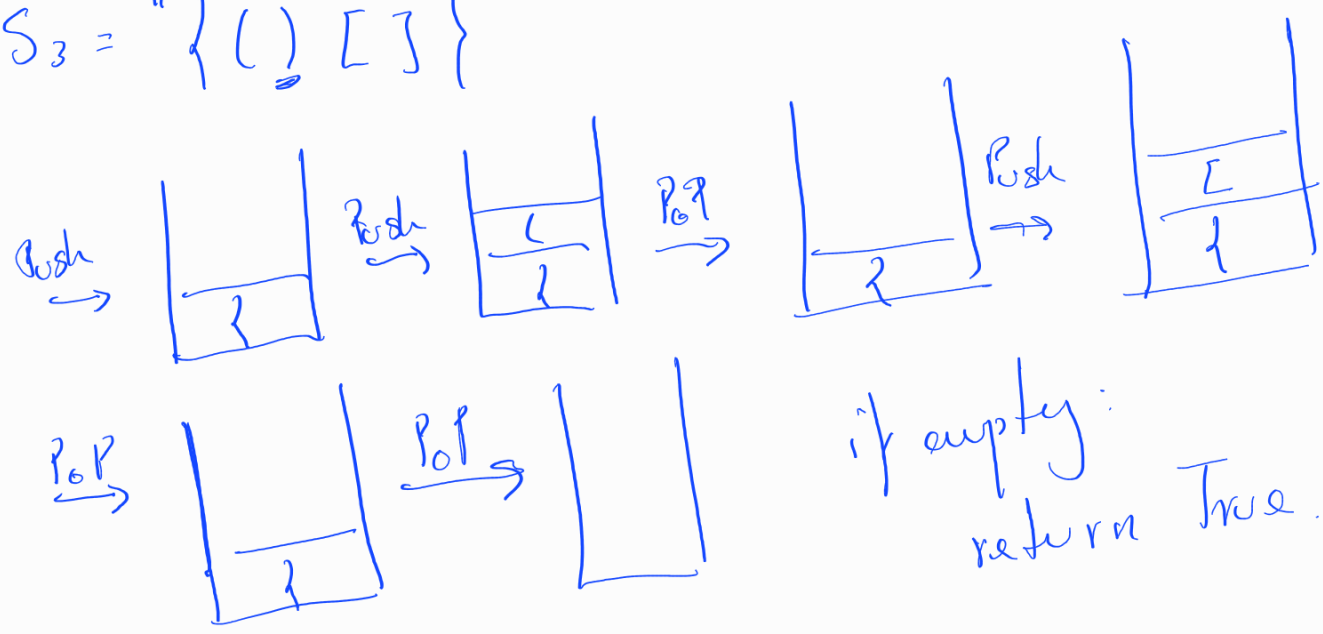




$S_2 = \text{"}\{[\ (\ )\ ]\}\text{"}$

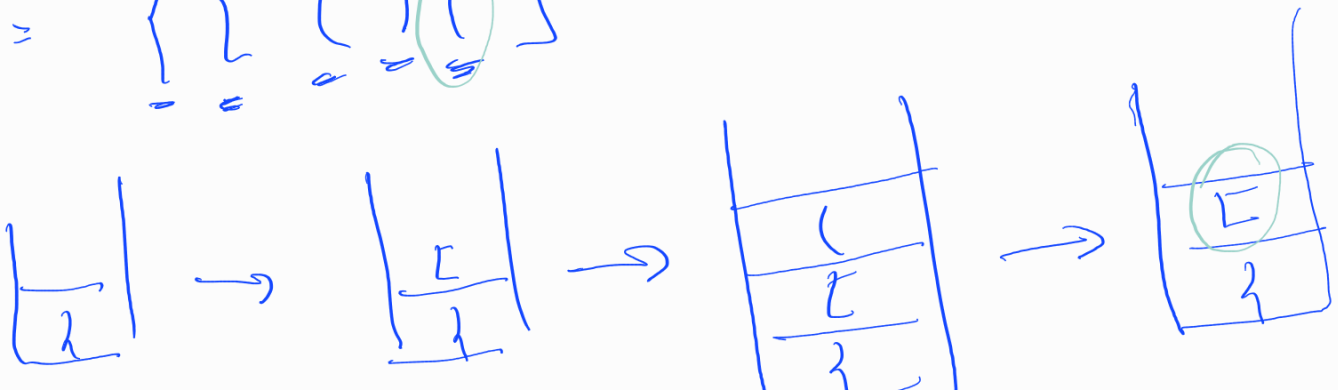


$S_3 =$ "{ ( ) [ ] }"



if empty:
return True.

$S_4 =$ "{ [( ) { }] }"



→ return False