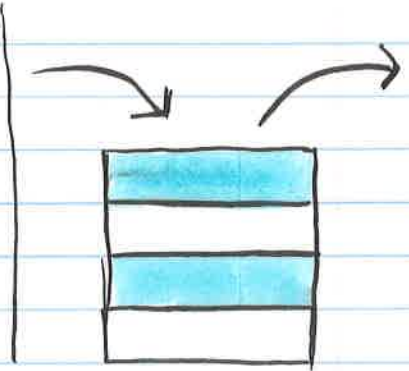


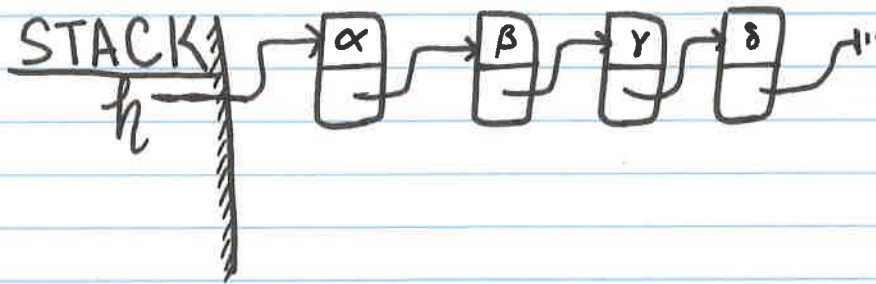
STACKS

LAST ON , FIRST OFF

- A WAY TO STORE DATA
- WHATEVER IS MOST RECENTLY PUT ON, COMES OFF FIRST.
- LIKE PLATES



IN A LINKED LIST



INIT() - CONSTANT

EMPTY?(S) - CONSTANT

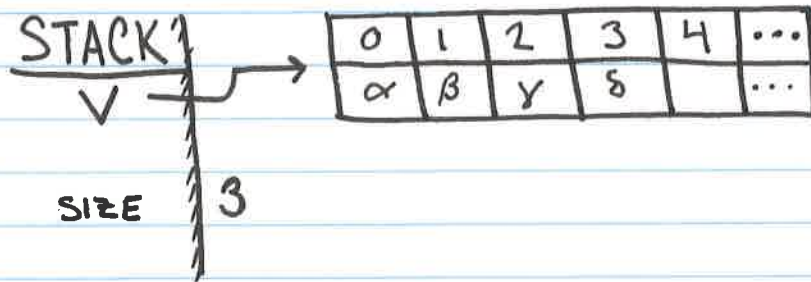
PUSH(x,S) - CONSTANT

POP(S) \rightarrow x - CONSTANT

PEEK(S) \rightarrow x - CONSTANT

- ALL OPERATIONS OCCUR ON THE HEAD
- JUST ADJUST HEAD POINTER

IN A VECTOR



INIT() CONSTANT
EMPTY?(S) CONSTANT
PUSH(x, S) CONSTANT
POP(S) $\rightarrow x$ CONSTANT
PEEK(S) $\rightarrow x$ CONSTANT

- OPERATIONS OCCUR AT END OF VECTOR
- IF WE KEEP SIZE VARIABLE UPDATED, WE KEEP FUNCTIONS EFFICIENT & QUICK