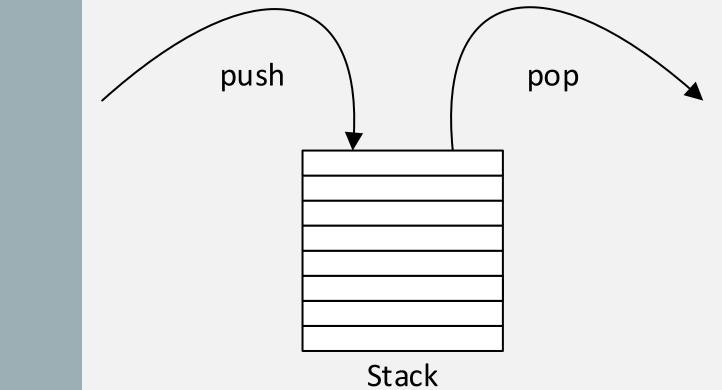


STACKS

A Last In, First Out Data Structure

Delroy A. Brinkerhoff



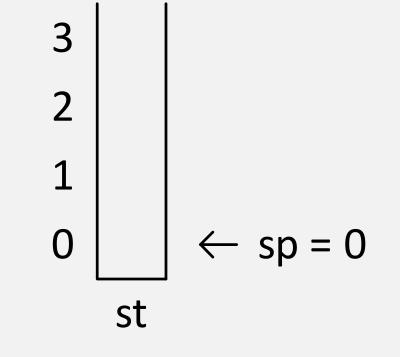


STACK BEHAVIORS

push an element on the stack pop an element off the stack size – the number of elements on the stack peek at the top element

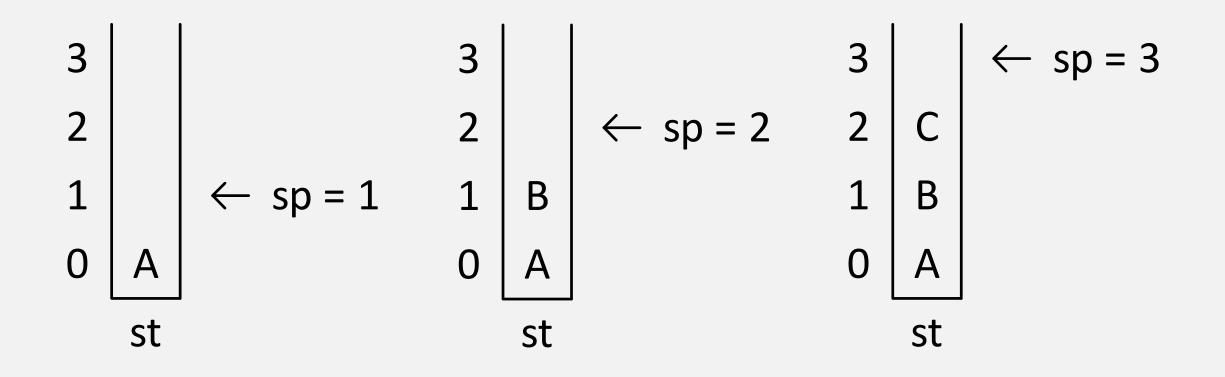
ARRAY IMPLEMENTATION

- Based on an array and a stack pointer
- push
 - st[sp++] = data; (sp must be < SIZE)
- рор
 - return st[--sp]; (sp must be > 0)
- size
 - return sp;
- peek
 - return st[sp-1];





PUSHING DATA ONTO A STACK st[sp++] = data;





POPPING DATA OFF OF A STACK return st[--sp];

