

Infix
2 + 3

$$5 - (7 \times 2) = 19$$

$$(5 + 7) \times 2 = 24$$

postfix
Calculator

14
3
2
10

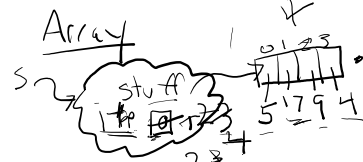
→ stack

→ Stack interface

```

interface
public void push(int e);
public int pop();
public int peek();
public int size();
public boolean isEmpty();

```



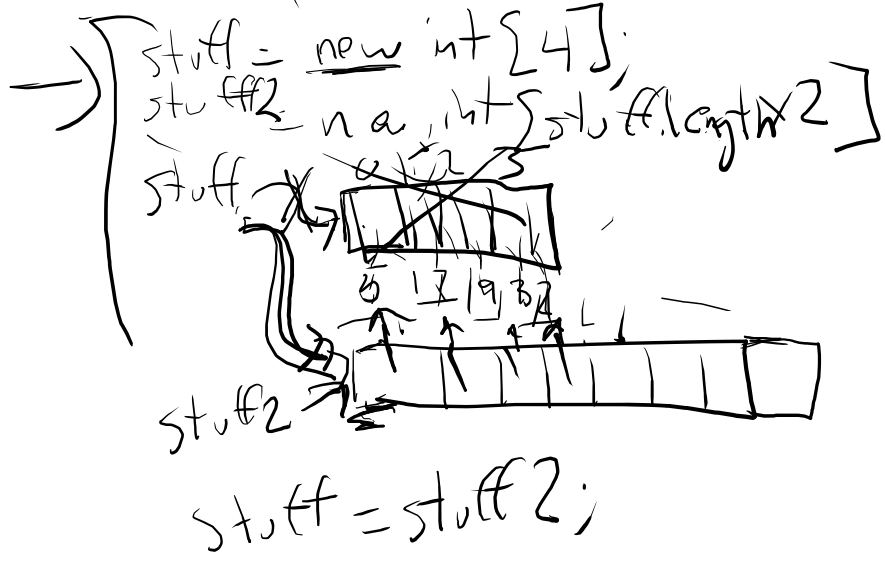
push(5);
push(1);
push(7);
push(9);
push(4);
push(32);

if (size() < 0)

pop();
pop();
pop();
pop();
pop();

Peek();
return stuff[top-1];

time
space



resize

- make space twice as big
- copy the elements to new space
- redirect stuff to new space