

## Assignment tips

- fraction simplification
  - implement easy reduction rules first
  
- example `do_add` in `examples/c++/fractions/sfract.cc`
  - see if you can write `do_sub` using similar rules
  
- now try implementing `do_mult`
  - and now `do_div`
  
- read the comments to `do_add` and see the rules employed

# Hints



$x + 0 \rightarrow x$   
 $0 + x \rightarrow x$   
 $x + x \rightarrow 2 * x$

$x - 0 \rightarrow x$   
 $0 - x \rightarrow x$   
 $x - x \rightarrow 0$

# Hints

x \* 1 -> x  
x \* 0 -> 0  
1 \* x -> x  
0 \* x -> 0  
x \* x -> x^2

etc for /