










## recursion over lists

-- add up elements of a list
Main> sumLint [2 .. 5] 14
sumLint :: [Int] -> Int Main> sumLint [1 .. 100]
sumLint [ ] $=0$
5050
sumLint $(x: x s)=x+$ sumLint $x s$
Main> sumLint [22, 35, 68]

```
sumLint [2,3,4,5]
->2 + sumLint [3,4,5]
->2 + (3 + sumLint [4,5])
->2+(3+(4 + sumLint [5]))
->2+(3+(4+(5 + sumLint [ ]))
O + (3+(4 + (5 + 0)))
->14
```









