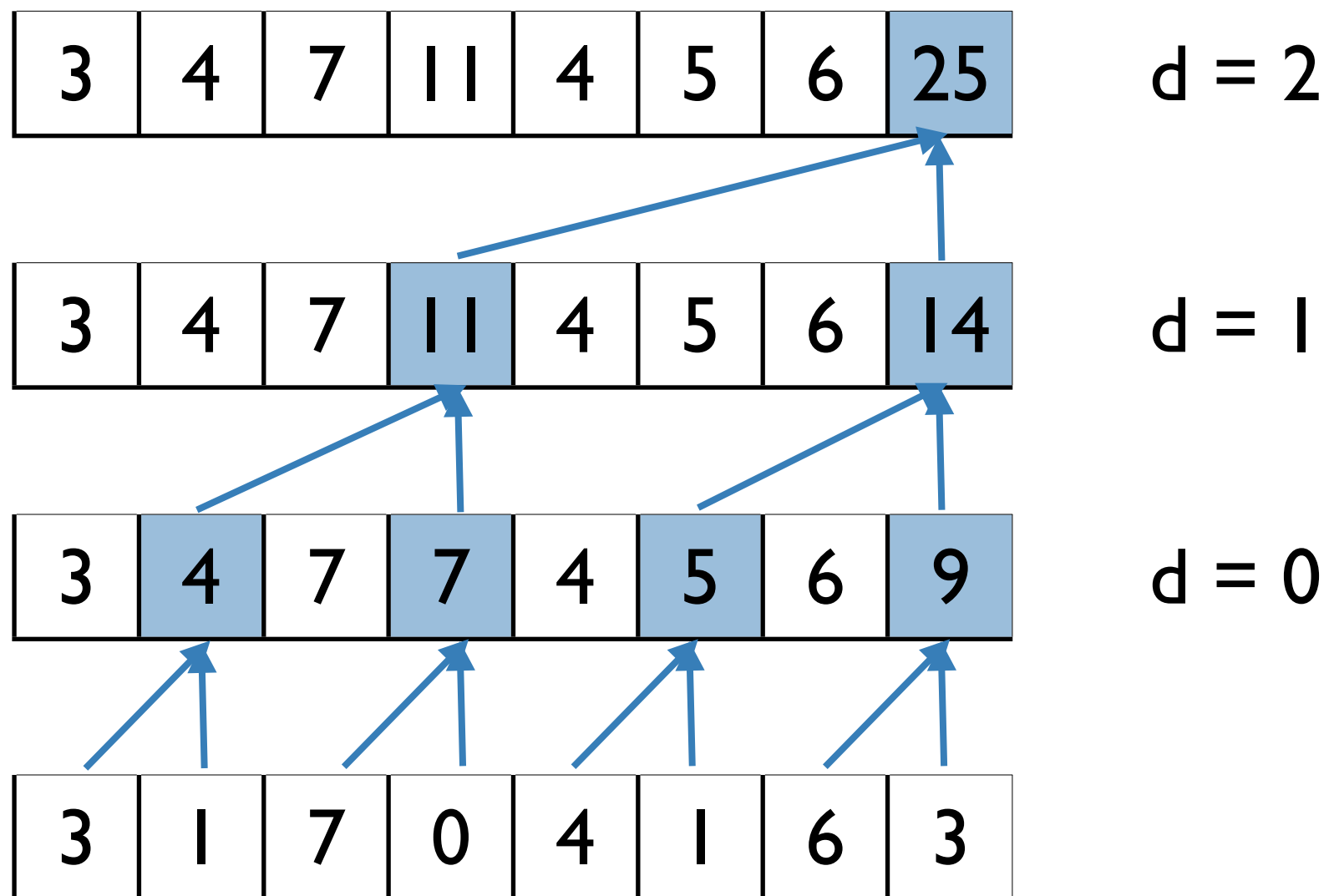
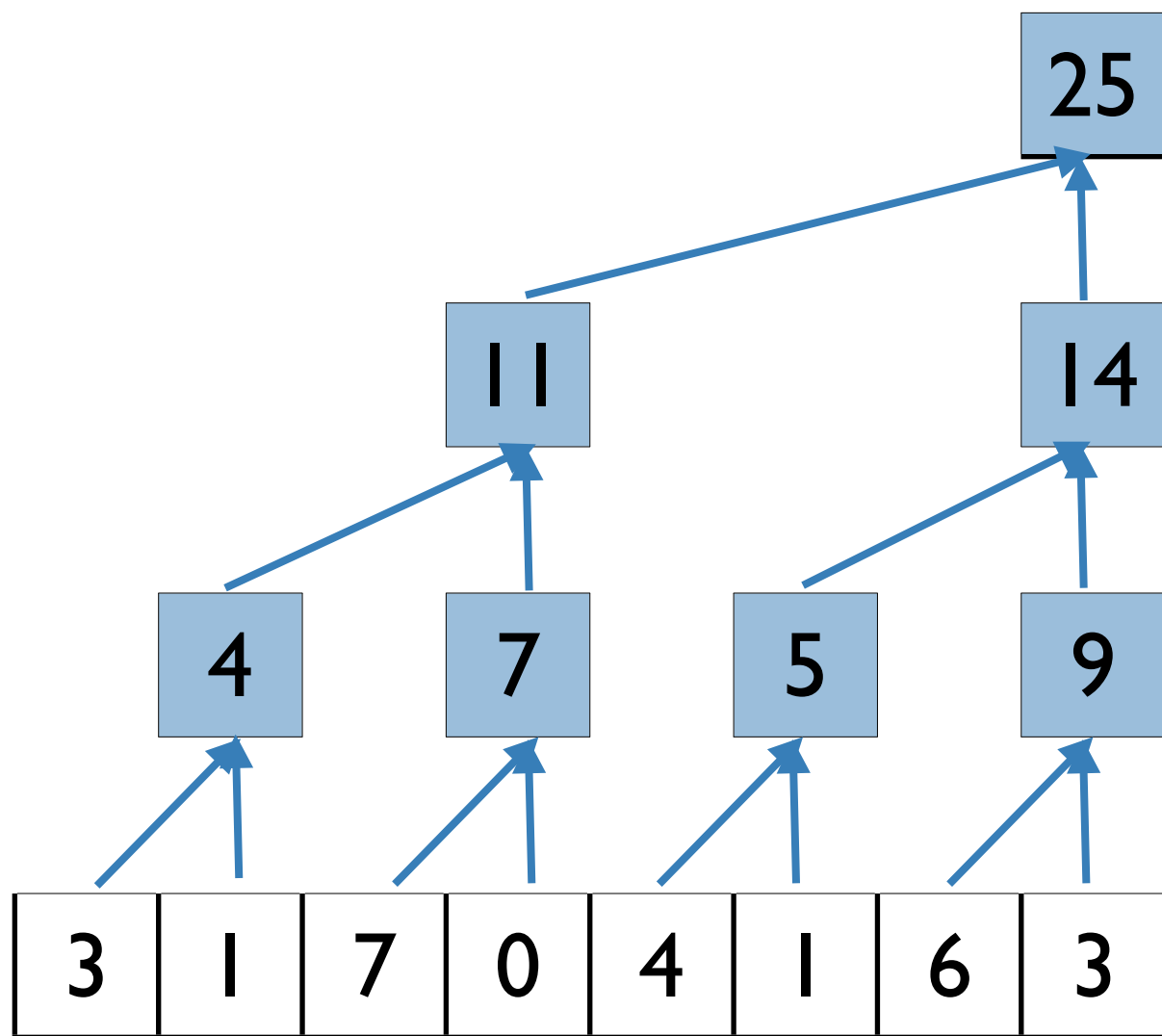


# Upsweep



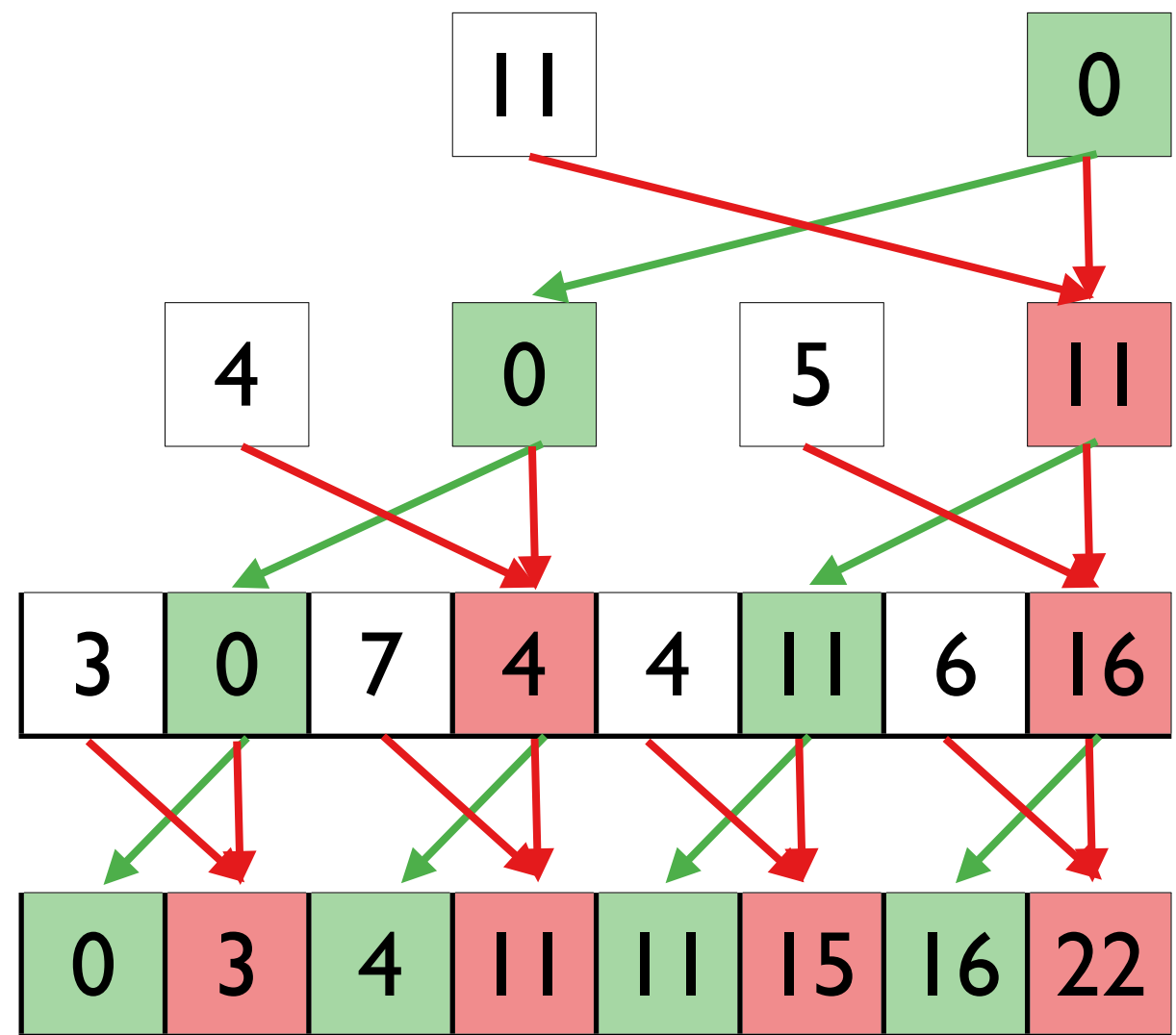
$$\text{sum}[i] := \text{sum}[L_i] + \text{sum}[R_i]$$

# Downsweep (again)

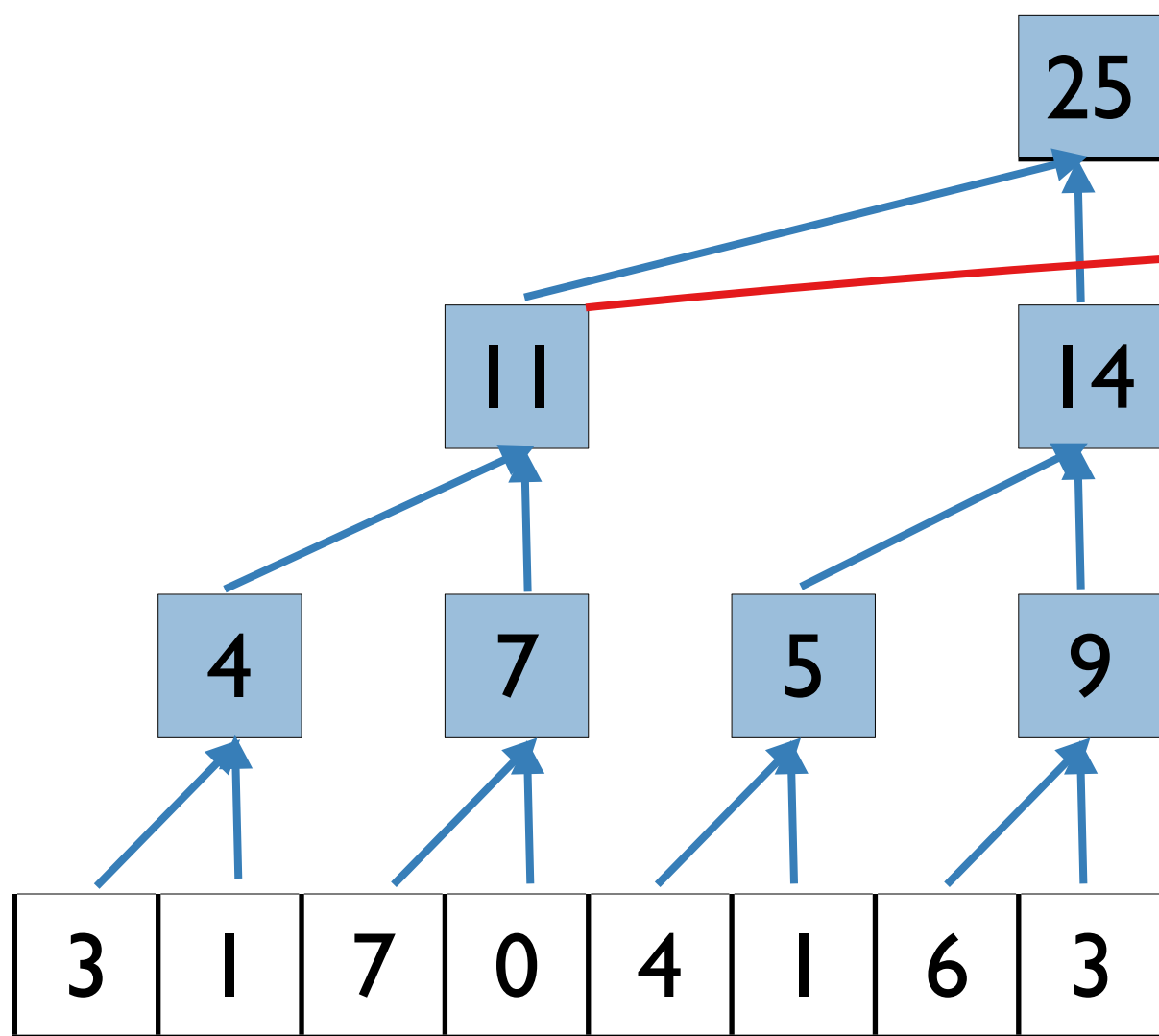


$\text{out}[L_i] := \text{out}[i]$

$\text{out}[R_i] := \text{sum}[L_i] + \text{out}[i]$

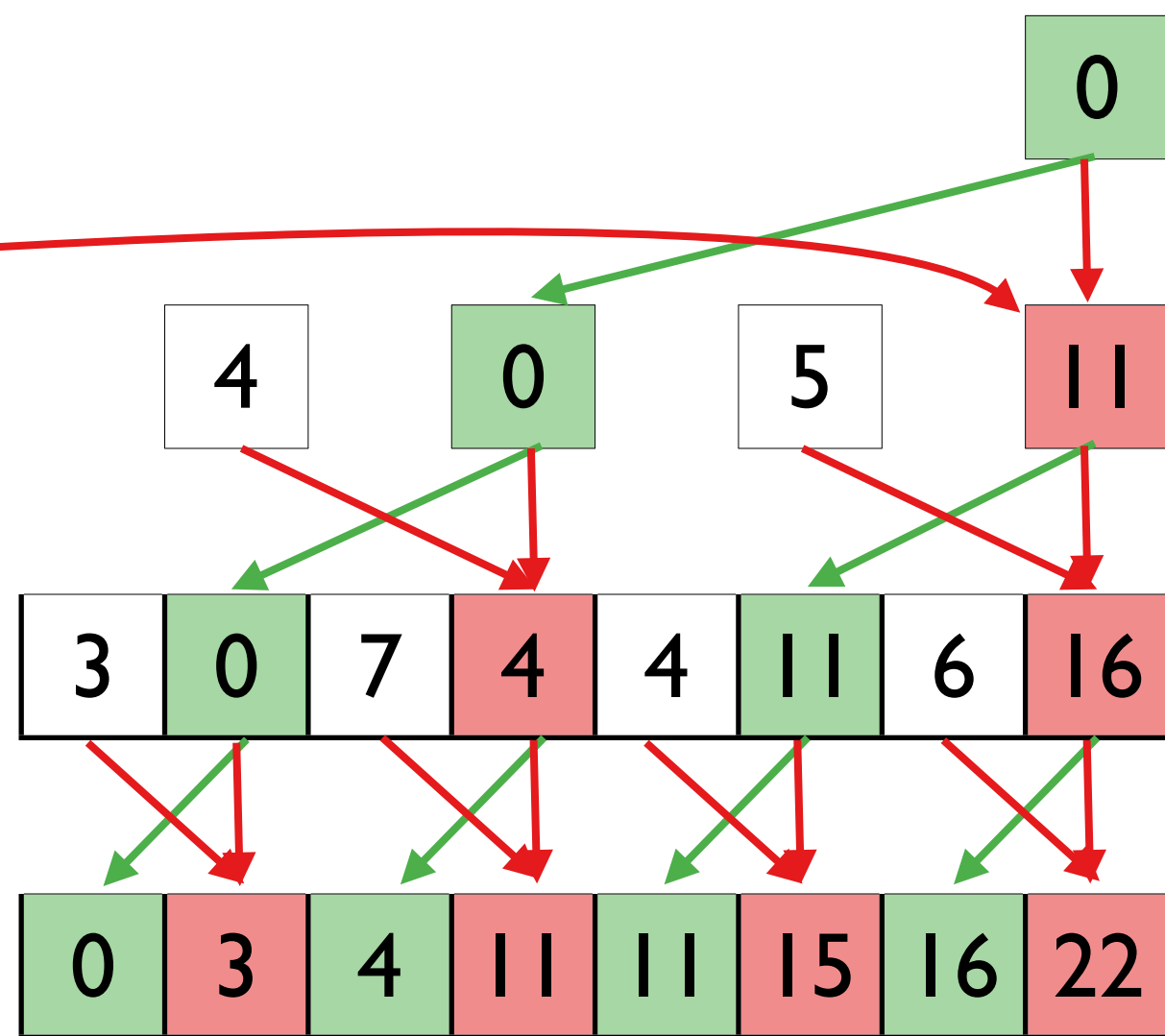


# Downsweep (again)

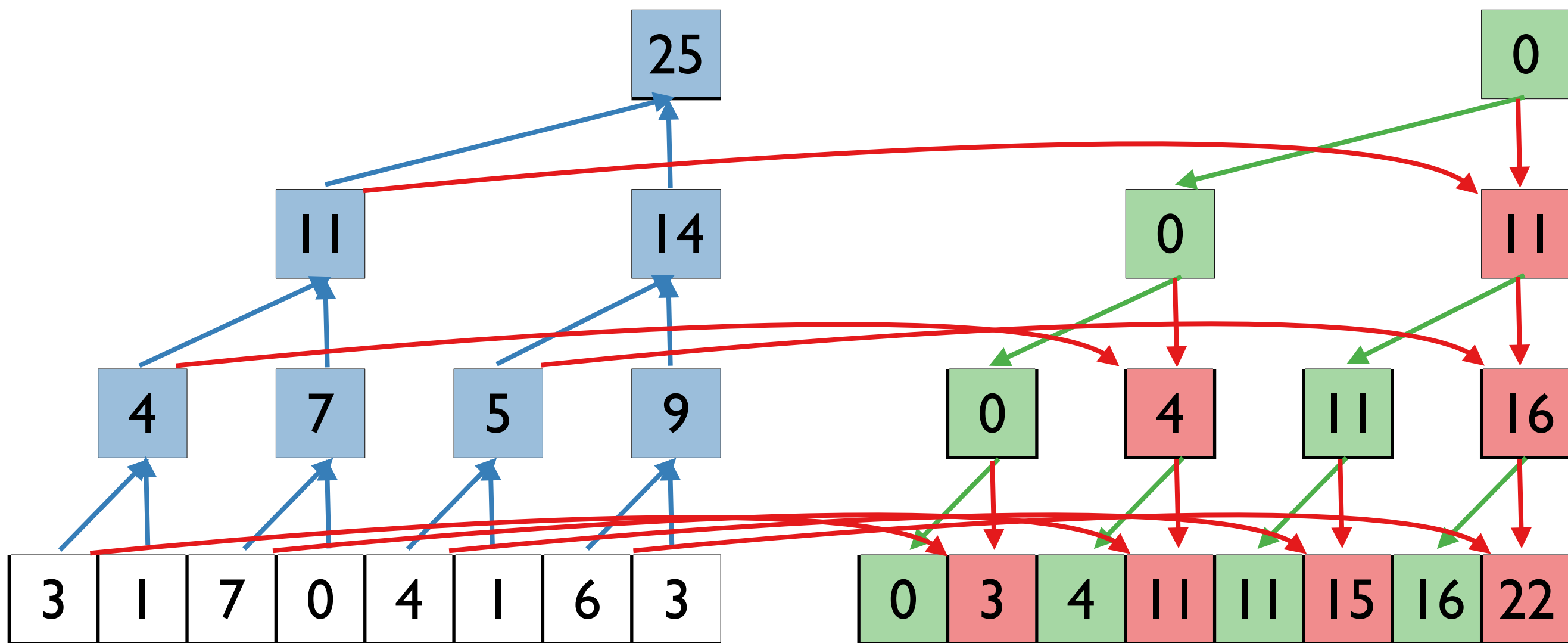


$\text{out}[L_i] := \text{out}[i]$

$\text{out}[R_i] := \text{sum}[L_i] + \text{out}[i]$



# Downsweep (again)



```

out[Li] := out[i]
out[Ri] := sum[Li] + out[i]
    
```