Reduce

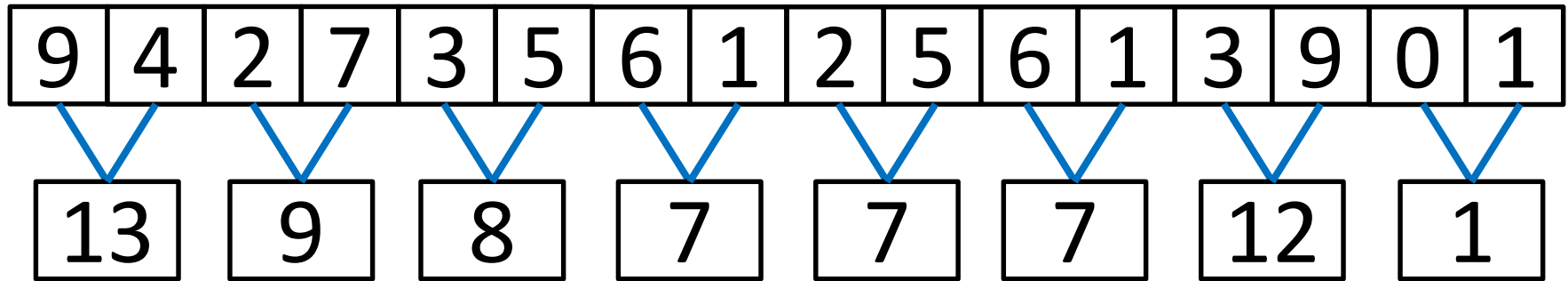**Apply the same operation between all the elements of a vector.**

Can be executed in log(n) time using a tree form.

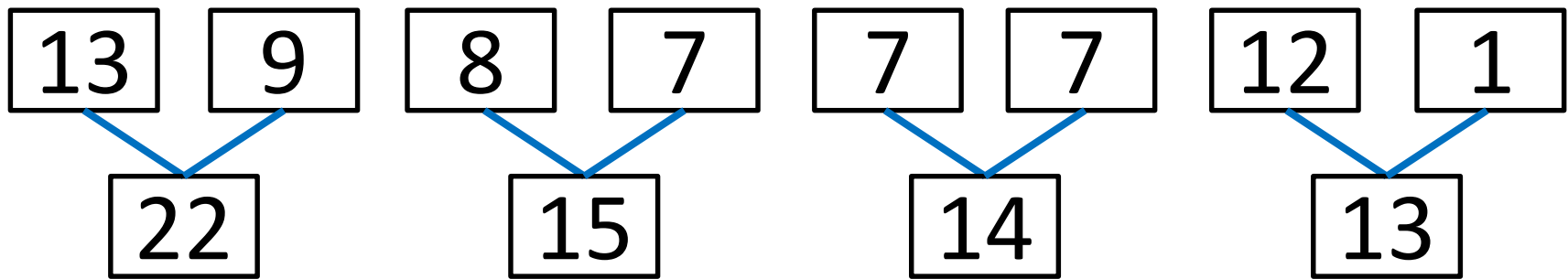**The operation can take many forms (+, *, min, max, and, etc.)**

Reduce - sum

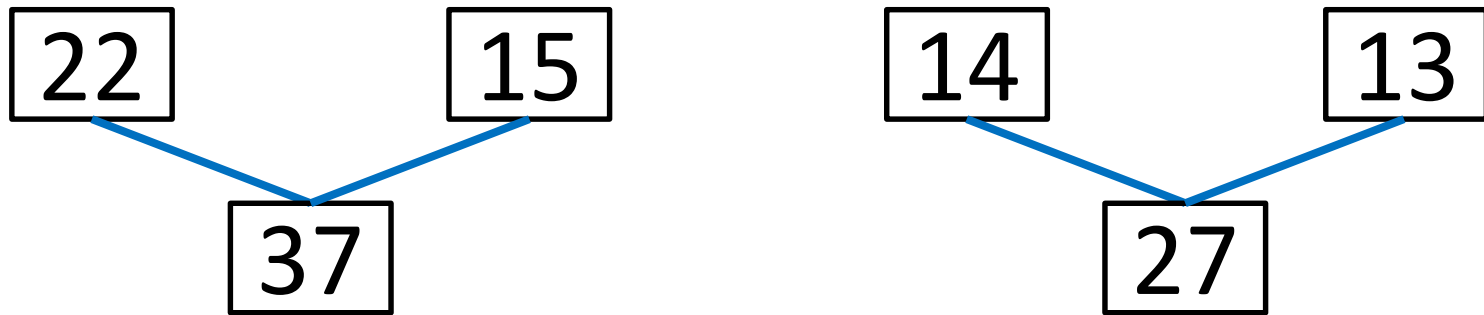| 9	4	2	7	3	5	6	1	2	5	6	1	3	9	0	1

13	9	8	7	7	7	12	1

Can all be executed in parallel

Reduce - sum

13   9   8   7   7   7   12   1

22   15   14   13

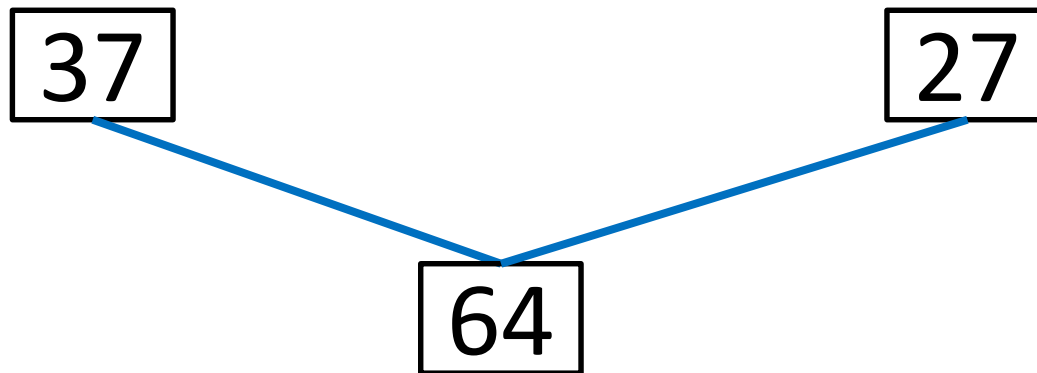**Can all be executed in parallel**

Reduce - sum

22   15   14   13

37   27

Can all be executed in parallel

Reduce - sum

37   27

64

Reduce - sum

9	4	2	7	3	5	6	1	2	5	6	1	3	9	0	1

13	9	8	7	7	7	12	1

22	15	14	13

37	27

64