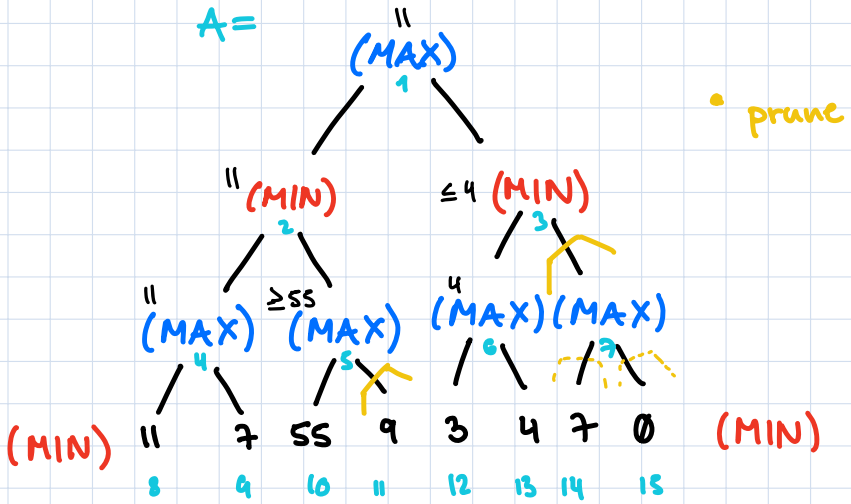
HW 1
⇒ Q3.ii

Tree MAX pruning



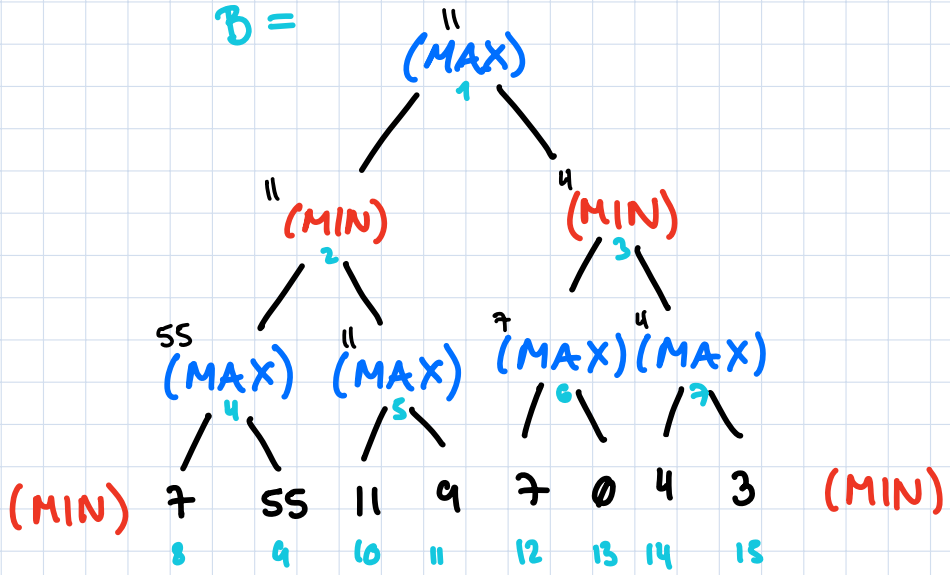
Pruned Nodes:

Node A[11]; A[10] is used as max and since A[10] > A[4] (MIN → A(2)), we prune A[11].

Node A[7]; A[6] is used as min and since A[1] is a max node it will pick A[2] over A[3], making A[7] useless /prunable

Σ: 2 (4 if we count the leaf nodes of A[7])

Tree MIN pruning

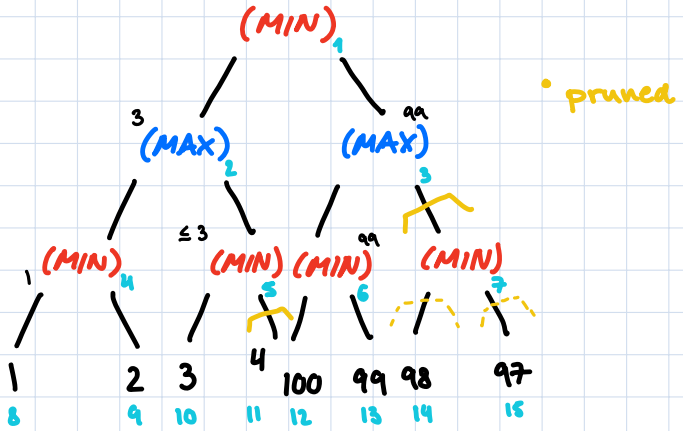


Pruned Nodes: None | []

$\Sigma: 0$

⇒ Q3. iv

Tree MAX pruning



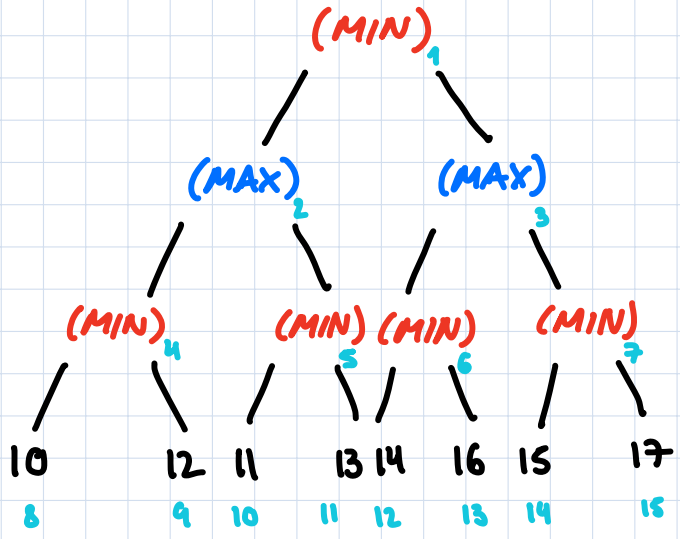
Pruned Nodes:

Node A[11]: Use A[10] as max for A[2] since A[10] > A[4]

Node A[7]: No point in exploring since A[1] would take A[2] over A[3], even if A[7] < A[6].

Σ: 2 (4 if we count the leaf nodes of A[7])

Tree MAX pruning



Pruned Nodes: None ([])

Σ: 0