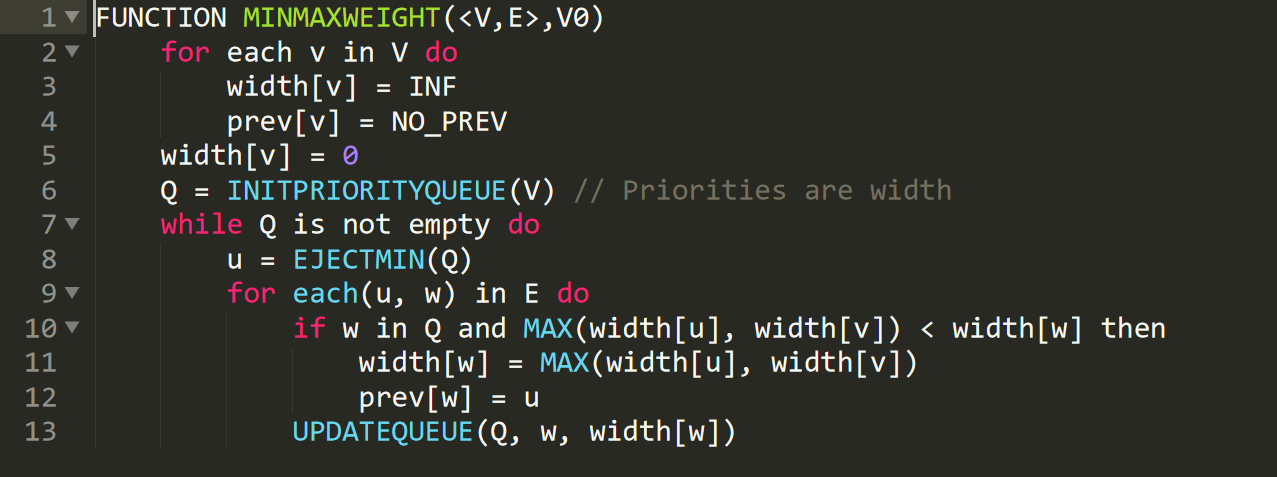
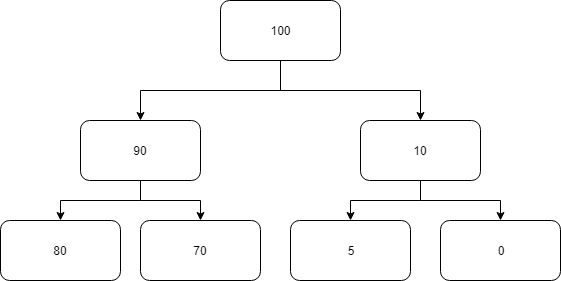
**Question 5**

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**Question 8**

Heap property states that each parent is not smaller than its children. It doesn’t state that each child must be smaller than parent’s “brothers”. In other word, heap property doesn’t guarantee that elements on k layer are greater than all elements on k+1 layer.



As the above heap demonstrates, top-3 elements (100, 90, 80) are not in the first 2 layers.