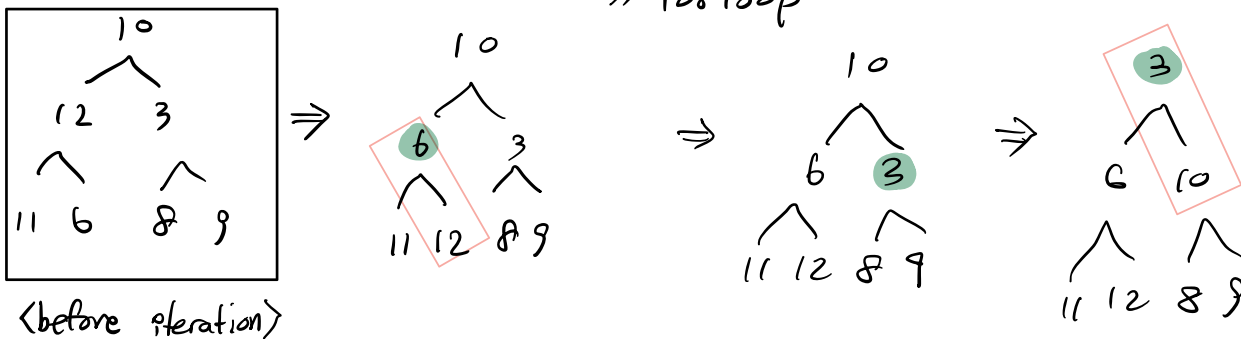


[Part 4-a]

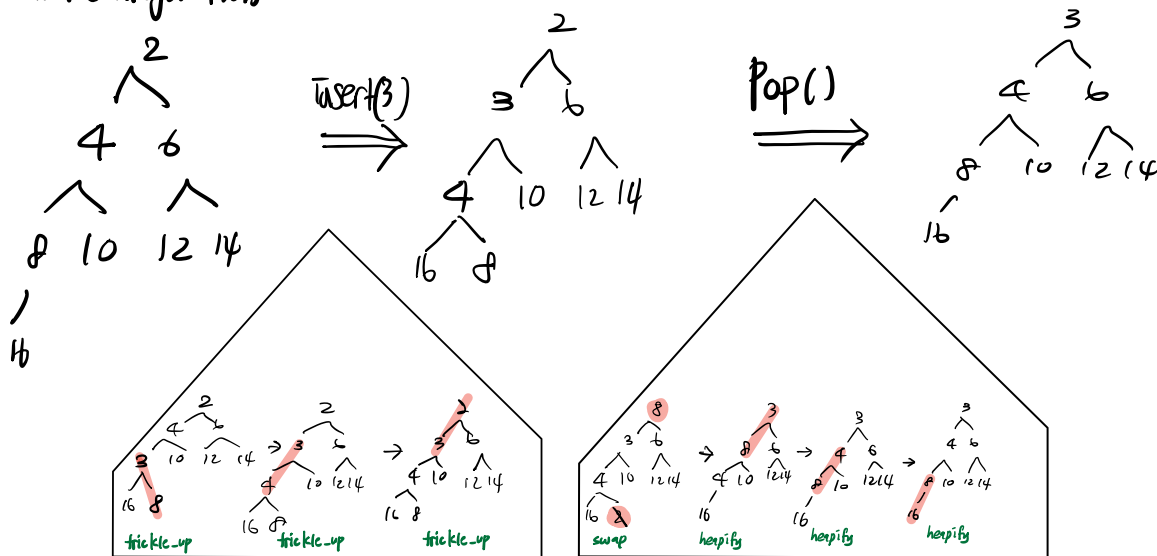
```
void make_heap (array[] & items )
{
    int non_leaf = (size-1)/2 // assuming it's counting start at 0
    for (int i = non_leaf; i >= 0; --i) // start from the first non-leaf node
    {
        heapify(i);
    }
}
```

\* drawing: [10, 12, 3, 11, 6, 8, 9] // a row shows each iteration of for loop

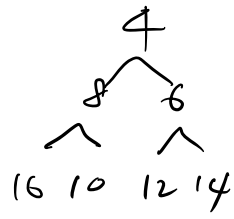


[Part 4-b]

Initial Configuration:



Pop()



Insert(5)

