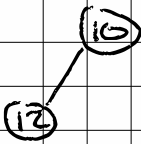
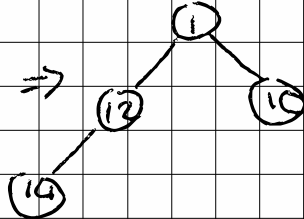


6.2)

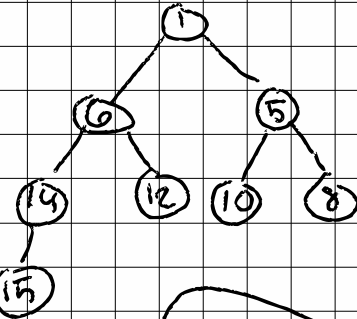
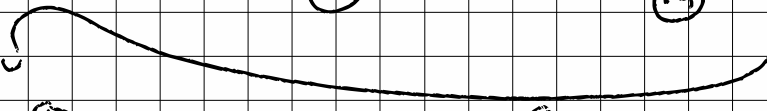
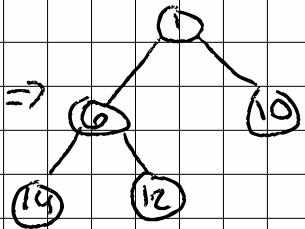
A)



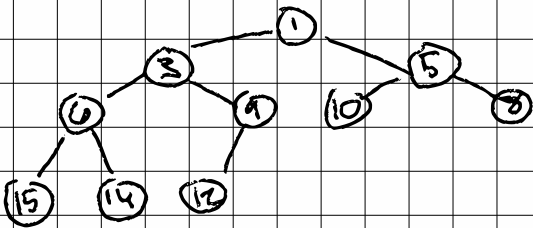
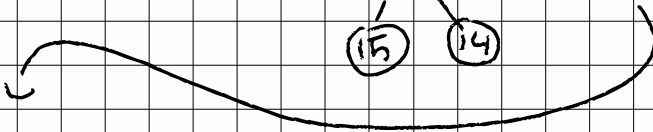
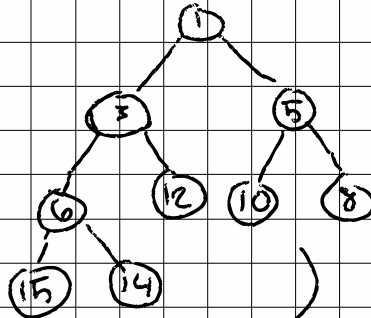
$\Rightarrow$



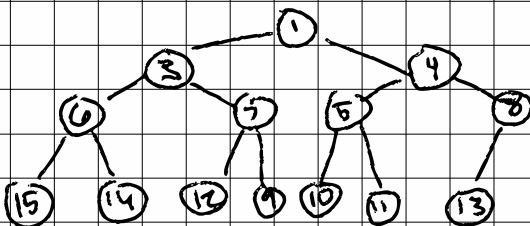
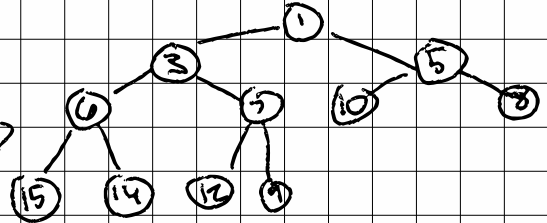
$\Rightarrow$



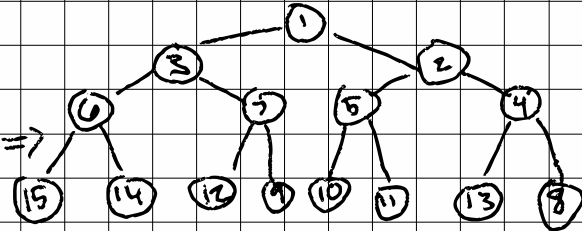
$\Rightarrow$



$\Rightarrow$

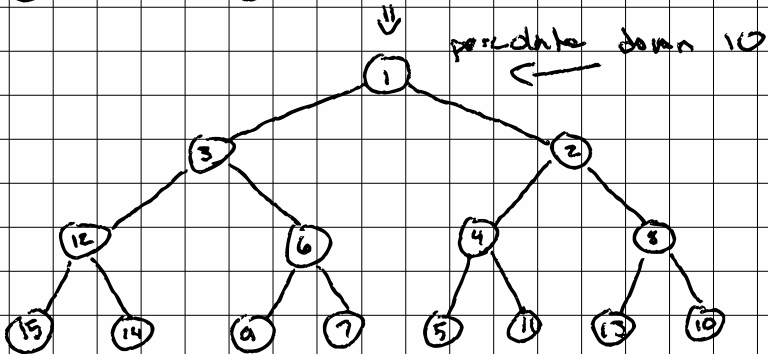
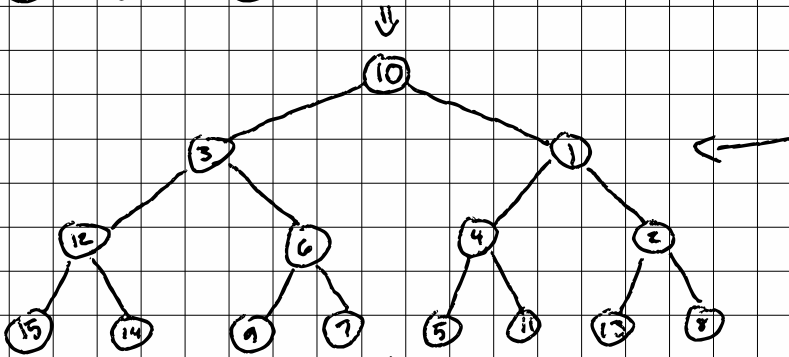
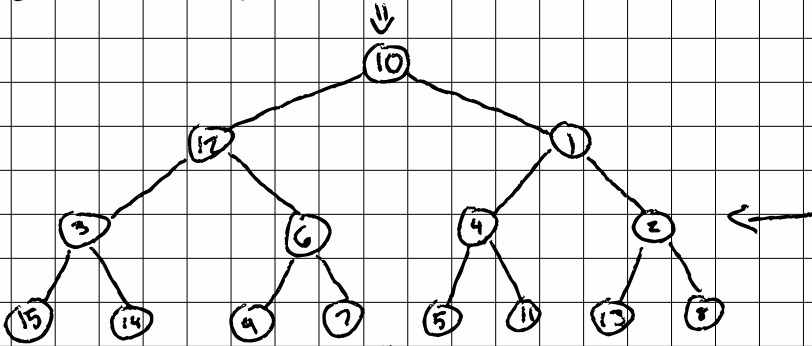
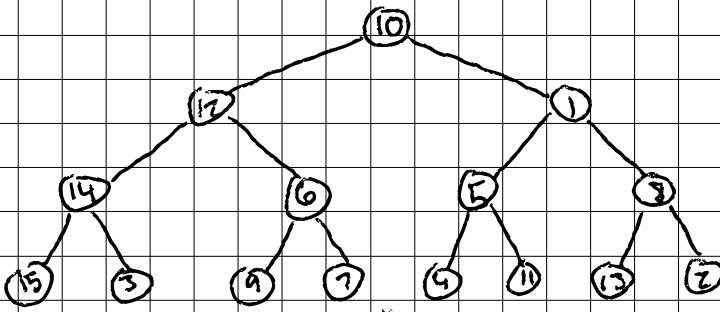


$\Rightarrow$

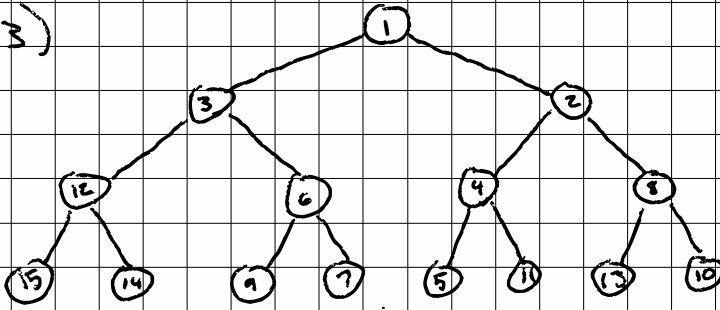


6.2)

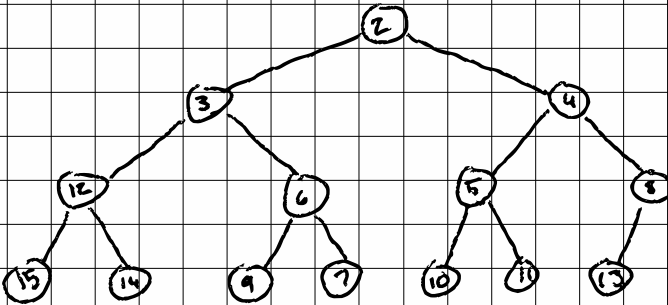
B)



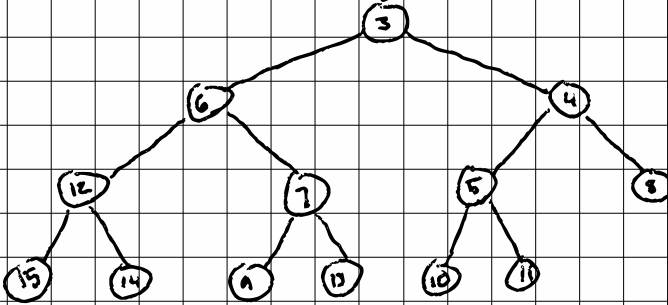
6.3)



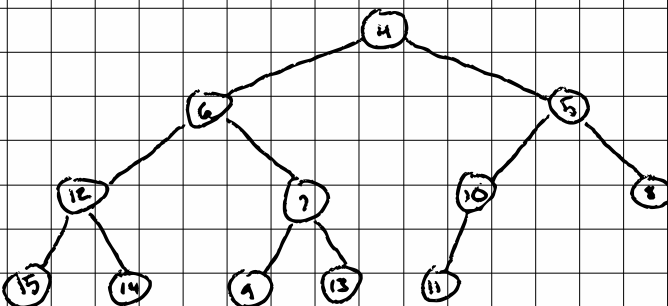
↓ delete Min()



↓ delete Min()



↓ delete Min()



6.5)

```
public void insert(AnyType x) {  
    if (currentSize == array.length) {  
        enlargeArray(array.length * 2 + 1);  
    }  
  
    int hole = ++currentSize;  
  
    for (; x.compareTo(array[hole/2]) < 0; hole /= 2) {  
        array[hole] = array[hole/2];  
    }  
  
    array[hole] = x;  
  
    array[0] = x;    ←
```

3

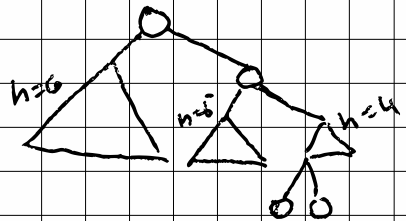
6.6)

$$\text{Max nodes} = 2^{n+1} - 1$$

$$n = 7 \quad 2^8 - 1 = 256 - 1 = 255$$

$$255 - 3 = 252$$

$$\frac{252}{4} = 63$$



$$(2^7 - 1) + (2^6 - 1) + (2^5 - 1) = 225$$

$$2^{4+1} - 1 = 31$$

$$63 \times 3 = 189 + 31 = 220$$

$$220 + 2 = 222$$

$$222 + 3 = 225$$

