Grant Nakashima

CS 261 Assignment 4

1)

```
                    50
              20          100
          10      30          130
              21
```
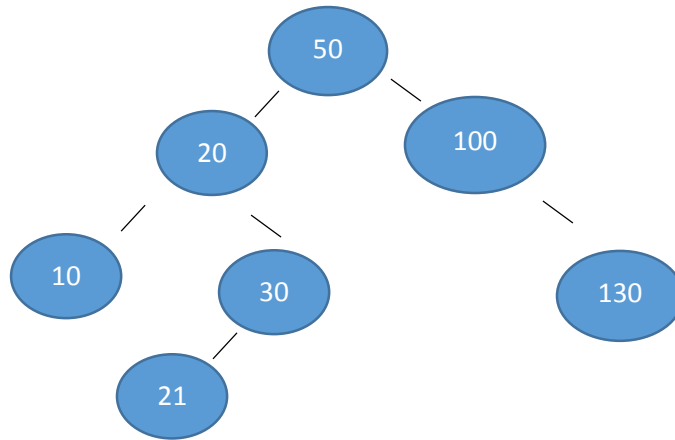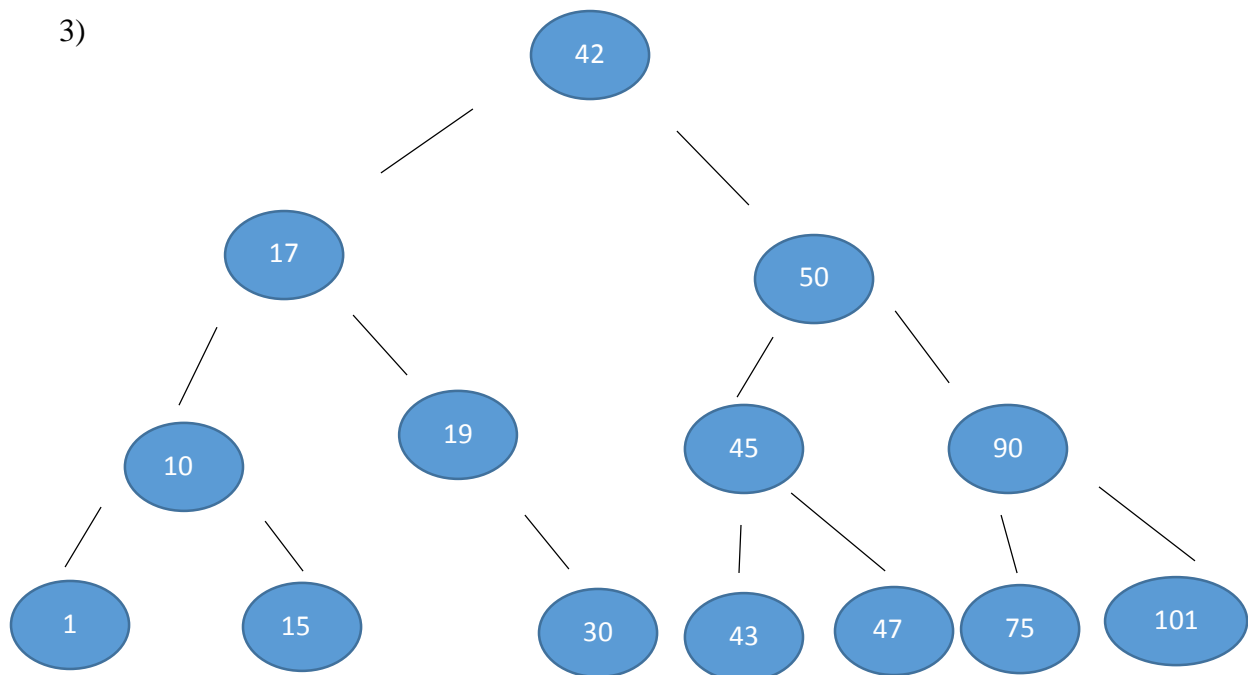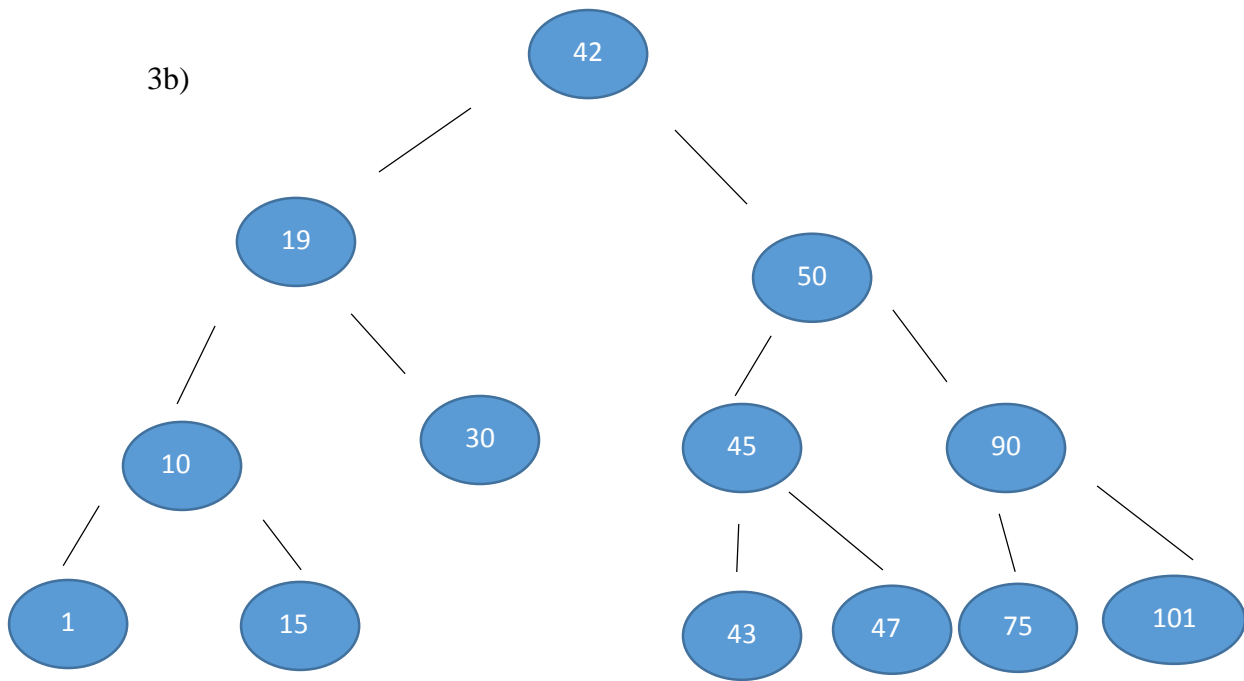
2) 4, 2, 6, 1, 3, 5 , 7

3)

```
                        42
            17                      50
        10      19              45      90
      1   15      30          43  47  75  101
```

3b)

```
                          42
                    /            \
                  19              50
                 /  \           /     \
               10    30       45       90
              /  \           /  \     /   \
             1    15        43   47  75    101
```

4)

```
                  Does it live in
                    the water
                 /               \
           Is it a            Does it climb
           mammal               trees?
          /     \              /         \
      whale   Sea turtle     cat      Does it eat
                                      space marines
                                       /         \
                                   zergling      dog
```