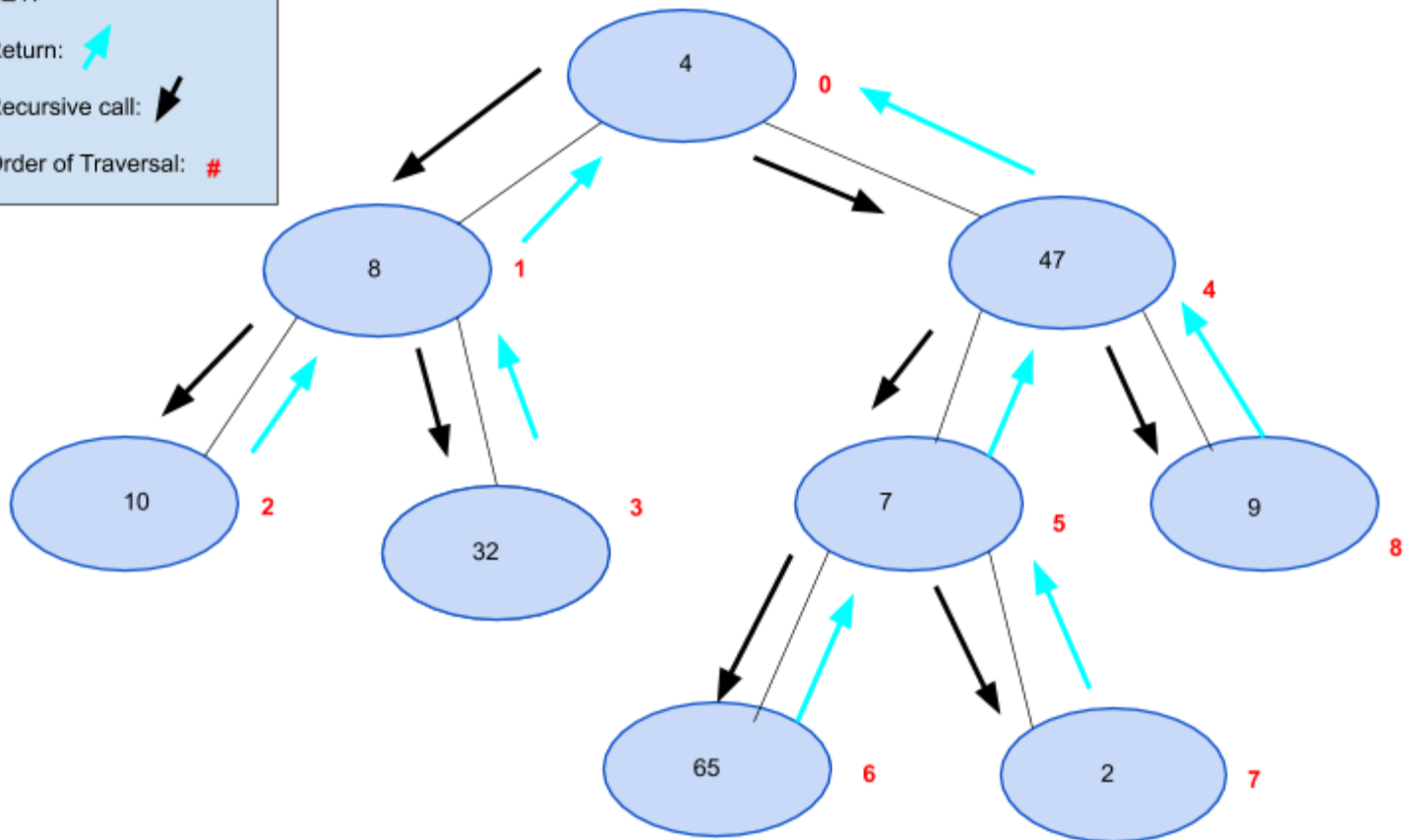
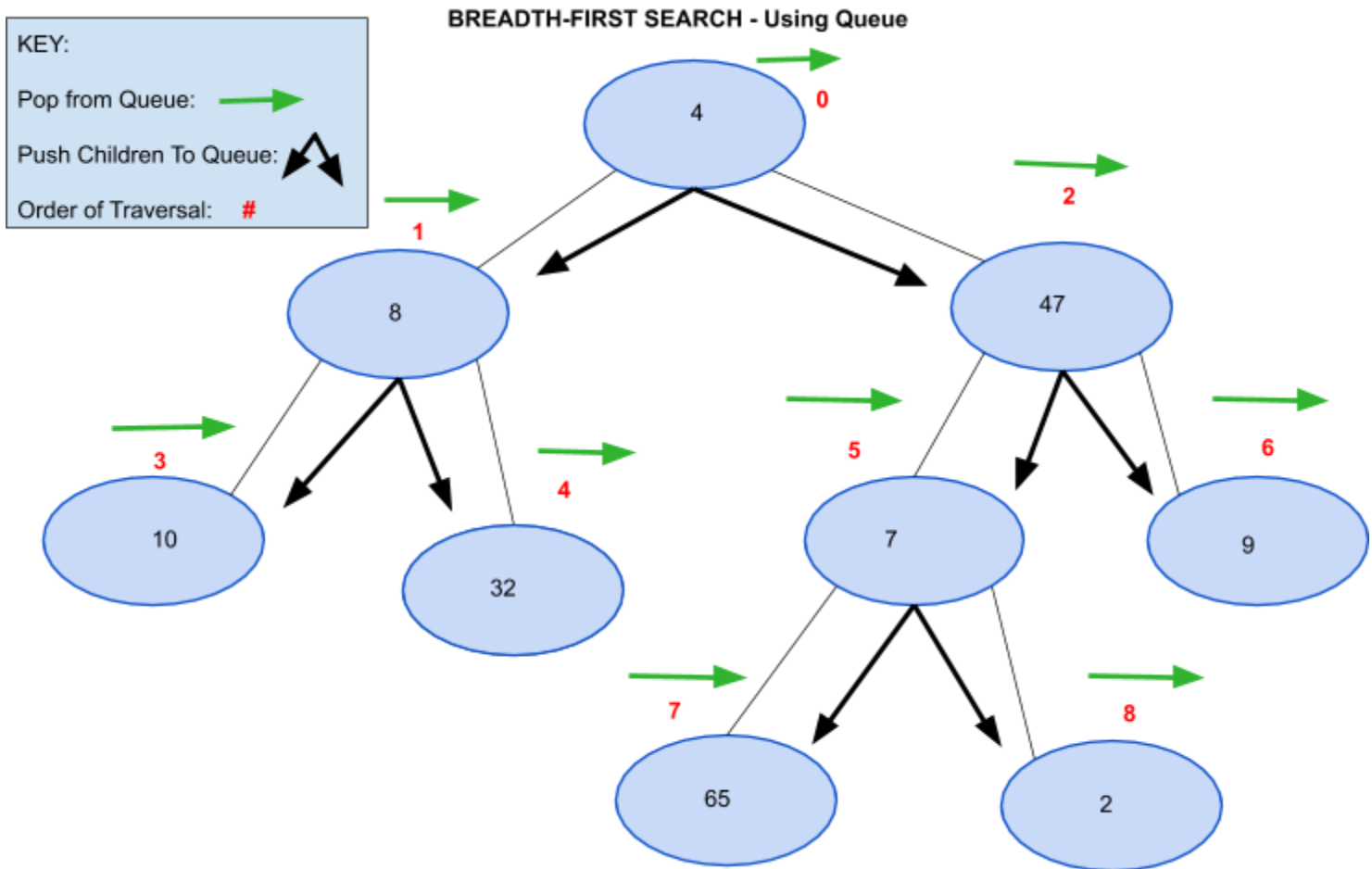


### DEPTH-FIRST SEARCH - Naturally Recursive



Python code example for Tree Data Structure:

```
def depth_search(self, value):  
    if self._value == value:  
        return self  
    for child in self._children:  
        node = child.depth_search(value)  
        if node is not None:  
            return node
```



Have a code example but i'm not 100% sure it works

```

def breadth_search(self, value):
    queue = [self]
    while queue:
        node = queue.pop()
        if node.value == value:
            return node
        if node.children:
            queue.extend(node.children)
  
```