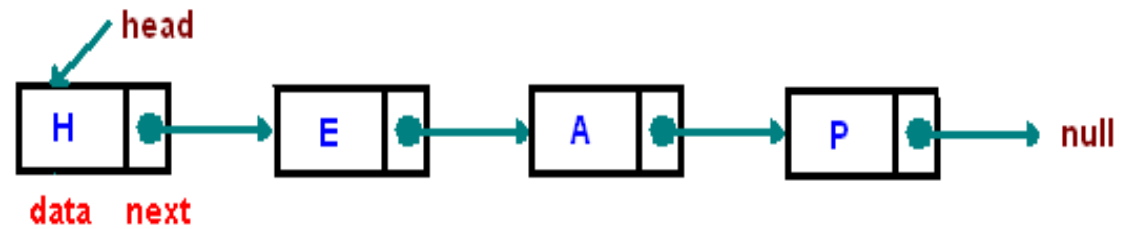
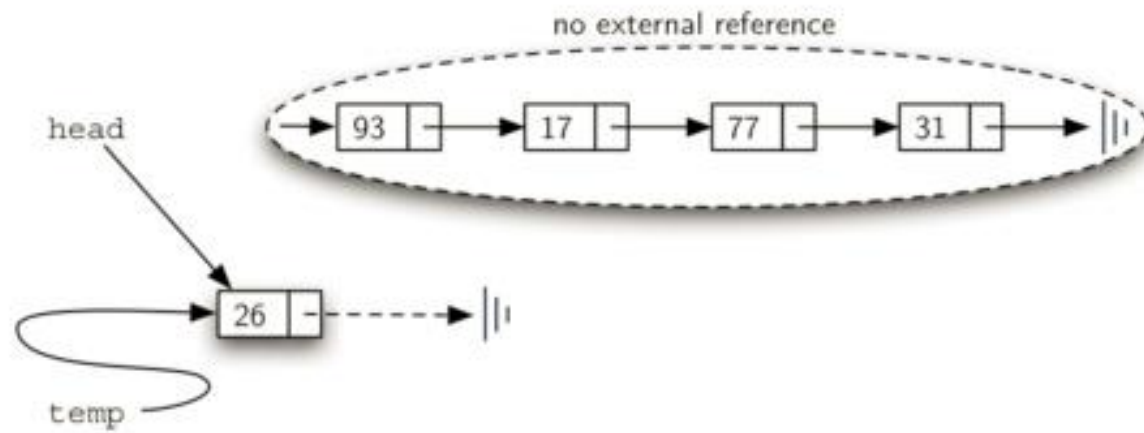
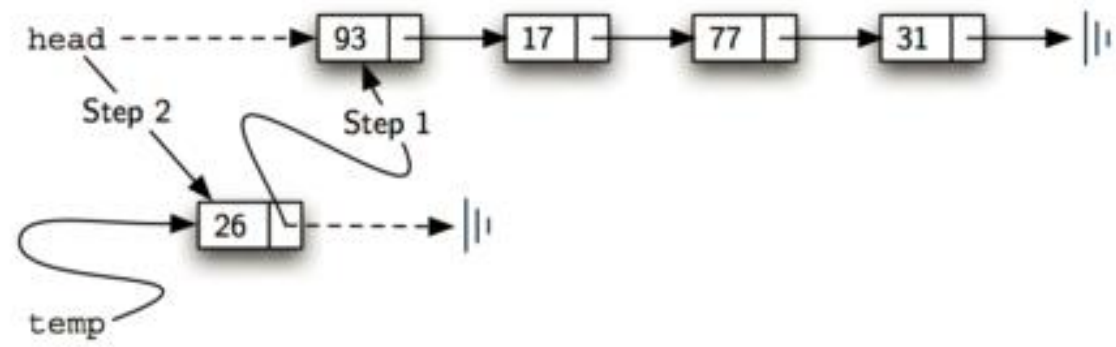


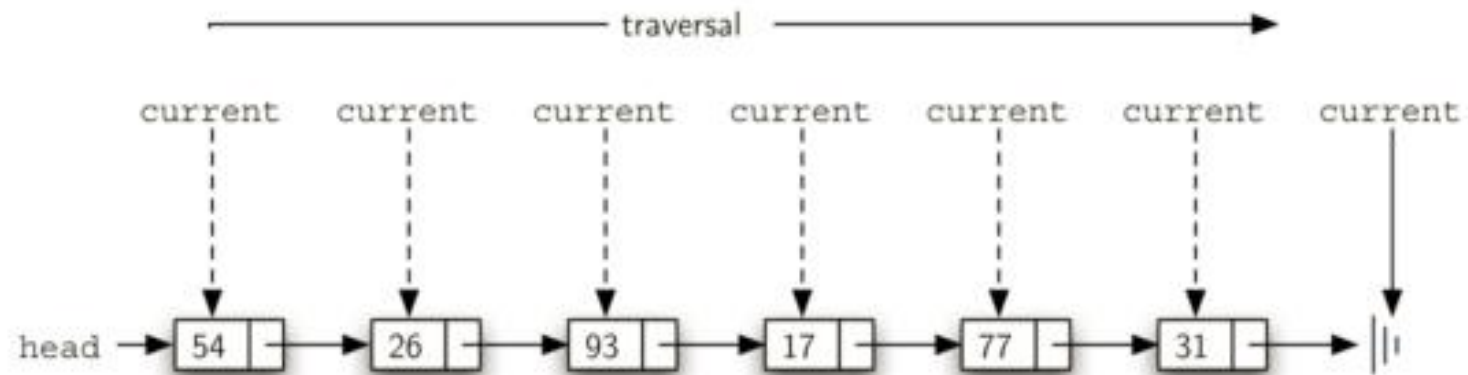
Data Structures and Algorithms in Python

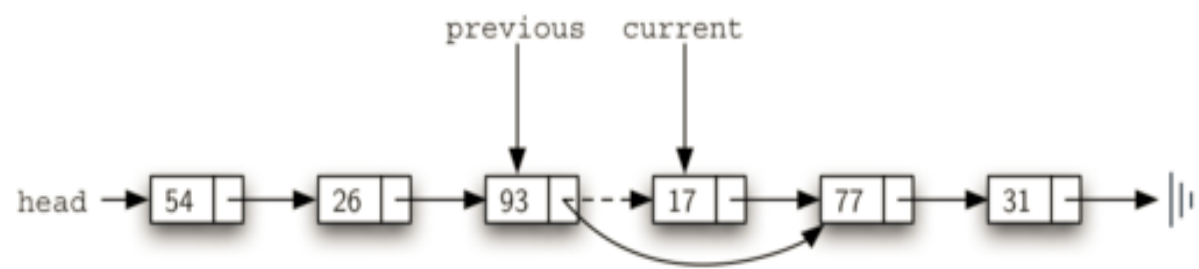
Data Structures

Singly Linked List

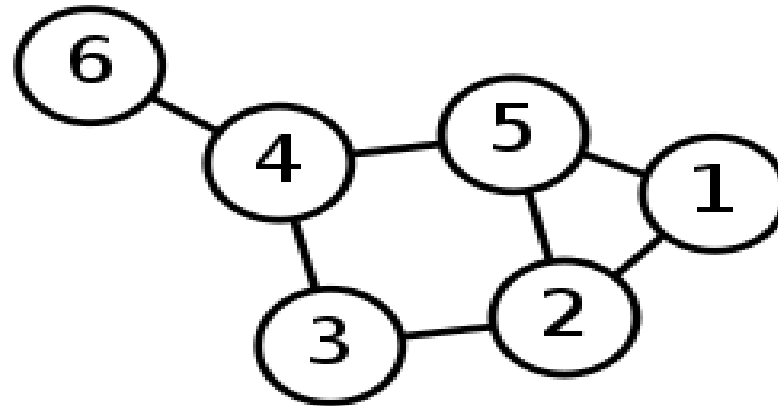




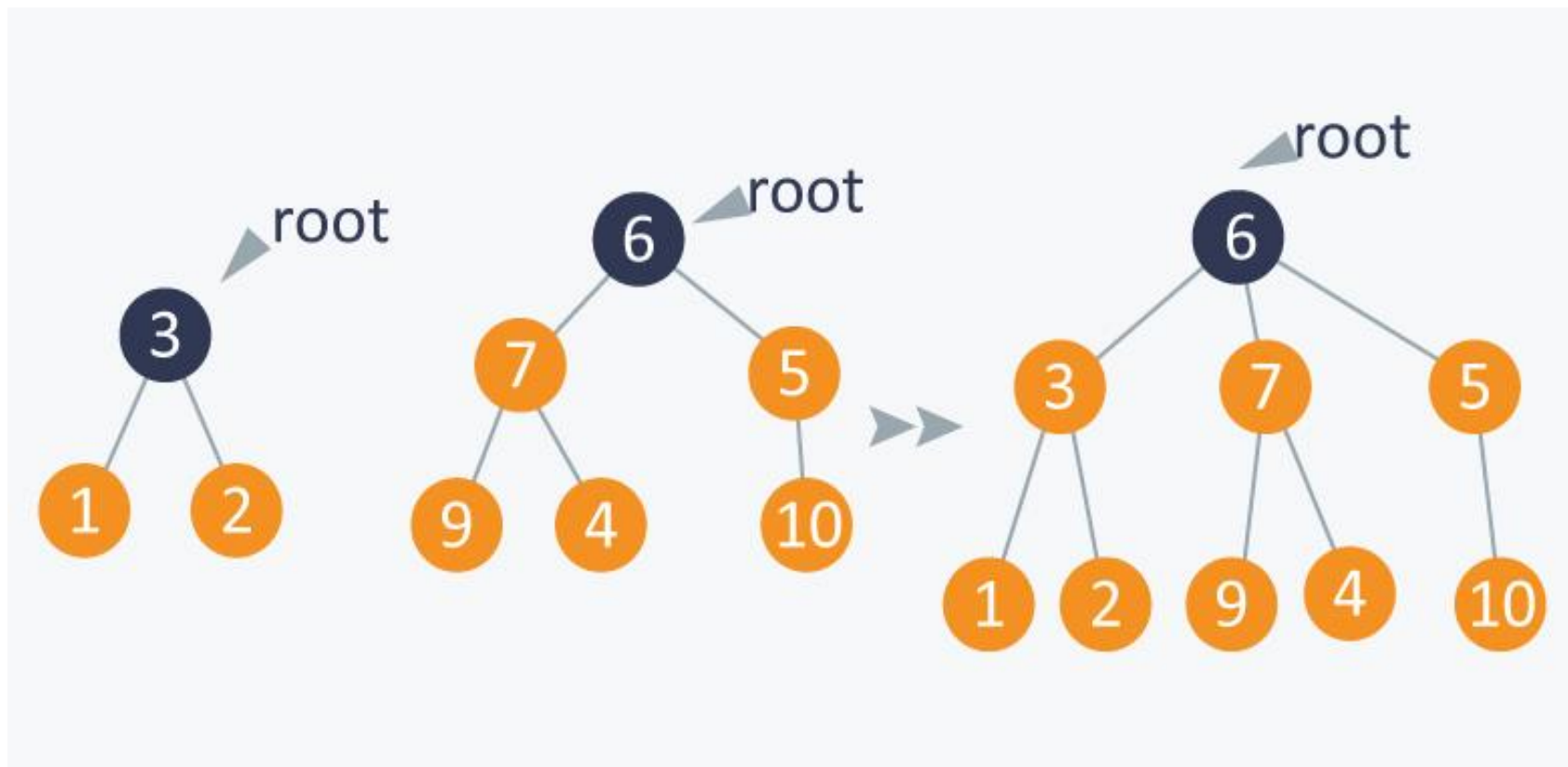




Undirected Graph



Union Find

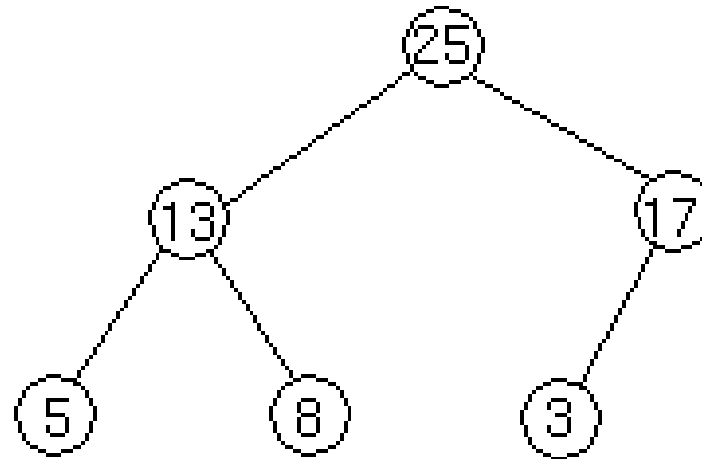


Algorithms

Breadth First Search

Sieve of Eratosthenes

Heap Sort



Heapify

Input data: 4, 10, 3, 5, 1

```
      4(0)
    10(1)  3(2)
  5(3)    1(4)
```

Applying heapify procedure to index 1:

```
      4(0)
    10(1)  3(2)
  5(3)    1(4)
```

Applying heapify procedure to index 0:

```
    10(0)
   5(1)  3(2)
  4(3)  1(4)
```

Thank you.