السلام عليكم

Main points

- Selection sort
- Linked lists
- How to sort linked list using selection sort
- Example
- Practical Example

Out Project Or Task

Selection Sort

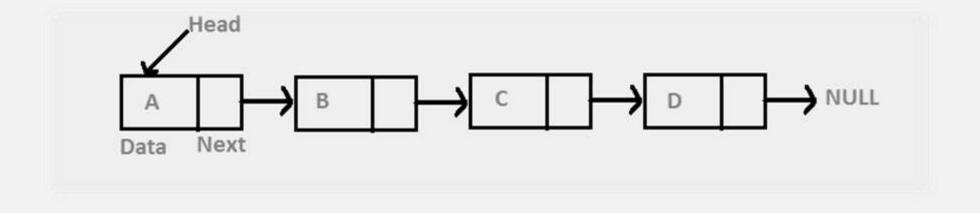
You Remember It?!

5 3 4 1 2

Selection Sort

Linked Lists

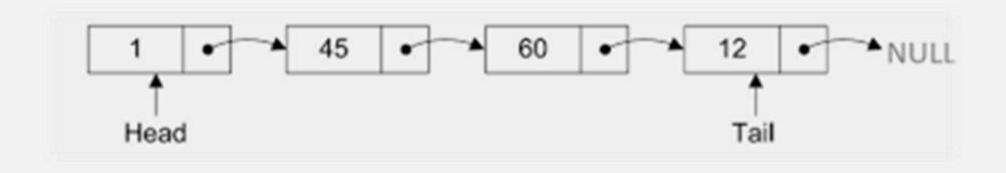
You Remember It?!



Steps To solve the problem

- Creating linked list class
- Creating node class
- Find the smallest element in the linked list
- Swapping it

Let us have an example



code

```
class Node:
    def __init__(self, data=None):
        self.data = data
        self.next = None
   def data(self):
        return self.data
    def next(self):
        return self.next
    def setData(self, newdata):
        self.data = newdata
    def setNext(self, newnext):
        self.next = newnext
```

```
□class LinkedList:
     def __init__(self):
         self.head = None
     def addv(self, data):
         node = Node(data)
         node.next = self.head
         self.head = node
     def printlist(self):
         temp = self.head
         ls = []
         while temp:
             ls.append(temp.data)
             temp = temp.next
         print(ls)
```

```
def selsort(self):
    cur = self.head
    while cur.next is not None:
        min = cur
        cmp = cur.next
        while cmp is not None:
            if cmp.data < min.data:
                 min = cmp
                 cmp = cmp.next

min.data, cur.data = cur.data, min.data
                 cur = cur.next
```

Practical Example

- Previous and next
- Graph

Questions

Thank You