DAY-6

Introduction to "Priority Queue."

→ An abstract data structure.

→ somewhere like a normal Queue. but where each item had a spcial "key" to quantify its "priority".

* In short, Not based on absolutely FIFO. but based on their "priority".

=> Priority Queue can be used to extract minimum efficiently when implementing "Dijkstra's Algorithm".

=> To store keys of nodes and extract minimum key node at every step.

=> Used in data compression.

Implementation of Priority Queue Using list:-

NOTE: * need to sort, everytime an item is added.

```
cricPlayers = [ ]
cricPlayers.append((99,"Dhoni"))
                    # No sort ; 'coz only one item.
cricPlayers.append((42,"Dkarthik"))
cricPlayers.sort(reverse=True)
        # sorted to maintain order.

cricPlayers.append((56,"KLRahul"))
cricPlayers.sort(reverse=True)
            # sorted to keep order.

while cricPlayers:
    print(cricPlayers.pop(0))
```

O/P :-

will be as:- Dhoni, KLRahul, Dkarthik.