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Bully Algo

```
In [ ]:
    def MyInput(smg):
        print(smg, end ="")
        ans = input()
        print(ans)
        return ans
```

Ring Algo

```
In [ ]: coordinator = 0
        n = int(input(("Enter the number of process: ")))
        status = []
        priority = []
        def Bulley(initiator):
             global coordinator
             coordinator = initiator
             for i in range(n):
                 if priority[initiator] < priority[i]:</pre>
                     print(f"Election message is sent from {initiator+1} to {i+1}")
                     if status[i] == 1 and i < n:</pre>
                         Bulley(i + 1)
        for i in range(n):
             print(f"For Process {i+1}:")
             status.append(int(MyInput("Status: ")))
             priority.append(i+1)
        initiator = int(MyInput("Which process will initiate election? "))
         Bulley(initiator-1)
         print(f"Final coordinator: {coordinator}")
```

```
For Process 1:
        Status: 1
        For Process 2:
        Status: 1
        For Process 3:
        Status: 1
        For Process 4:
        Status: 1
        For Process 5:
        Status: 1
        For Process 6:
        Status: 1
        For Process 7:
        Status: 0
        Which process will initiate election? 1
        Election message is sent from 1 to 2
        Election message is sent from 3 to 4
        Election message is sent from 5 to 6
        Election message is sent from 5 to 7
        Election message is sent from 3 to 5
        Election message is sent from 6 to 7
        Election message is sent from 3 to 6
        Election message is sent from 3 to 7
        Election message is sent from 1 to 3
        Election message is sent from 4 to 5
        Election message is sent from 6 to 7
        Election message is sent from 4 to 6
        Election message is sent from 4 to 7
        Election message is sent from 1 to 4
        Election message is sent from 5 to 6
        Election message is sent from 5 to 7
        Election message is sent from 1 to 5
        Election message is sent from 6 to 7
        Election message is sent from 1 to 6
        Election message is sent from 1 to 7
        Final coordinator: 6
In [ ]: node = []
        status = []
        election = []
        n = int(MyInput("Enter no. of process: "))
        for i in range(n):
            node.append(i + 1)
             status.append(int(MyInput(f"Enter Status of process {i+1}: ")))
        for i in range(len(node)):
            if status[i] != 0:
                 election.append(node[i])
        print(f"Coordinator is {max(election)}")
```

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Enter no. of process: 7
Enter Status of process 1: 1
Enter Status of process 2: 0
Enter Status of process 3: 1
Enter Status of process 4: 1
Enter Status of process 5: 0
Enter Status of process 6: 1
Enter Status of process 7: 1
Coordinator is 7