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| **CO1** | Analyze a given algorithm and determine its time complexity. |
| **CO2** | Understand the concepts of linear data structures and its usage. |
| **CO3** | Apply linear data structures to solve the given problem. |
| **CO4** | Apply different sorting and searching techniques based on the given application. |
| **CO5** | Understand the usage of non-linear data structures. |
| **CO6** | Solve the given problem by applying suitable data structures. |

**BL – Bloom’s Taxonomy Levels**

(L1- Remembering, L2-Understanding, L3-Applying, L4- Analysing, L5-Evaluating, L6-Creating)

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| **Q.No** | **Question** | **CO** | **BL** |
| 1 | Write a program to calculate the number of items in a queue. | **CO2, CO3** | **L3** |
| 2 | Write a program to create a linear queue of 10 values. | **CO2, CO3** | **L3** |
| 3 | Write a program to create a queue from a stack. | **CO2, CO3** | **L3** |
| 4 | Write a program to create a stack from a queue. | **CO2, CO3** | **L3** |
| 5 | Write a program to reverse the elements of a queue. | **CO2, CO3** | **L3** |
| 6 | Write a program to input two queues and compare their contents. | **CO2, CO3** | **L3** |