

Question on Queue

Q1: What are some common scenarios where queues are used? List some Queue real-life applications

Q2: What is Queue?

Q3: Why and when should I use Stack or Queue data structures instead of Arrays/Lists?

Q4: What is Complexity Analysis of Queue operations?

Q5: What are some types of Queue?

Q6: What are benefits of Circular Queue?

Q7: Name some Queue implementations and compare them by efficiency of operations

Q8: Compare Array-Based vs List-Based implementation of Queues (can be done later)

Q9: How to manage Full Circular Queue event?

Q10: Name most efficient way to implement Stack and Queue together

How do I convert a Queue into the Stack?

Implement Stack using Two Queues (with efficient **push**)

Q11: Implement a Queue using two Stacks

How to implement a Queue using one stack

Q12. What is a Priority Queue where is it used give example?

Q13. What is a Dequeue?

Programs

1) Write a Program to implement Linear Queue

2) Write a Program to implement Circular Queue

3) Write a Program to implement Double ended queue

4) Write a Program to implement Priority Queue