1. Write a program to create a circular linked list with 5 nodes, where each node contains an integer. Display the list in a circular manner
2. Modify the above program to allow inserting a node at the beginning of the circular linked list.

   Enhances the above by inserting at head.
3. Add functionality to insert a node at the end of a circular linked list.

   insert new node just before head by updating `tail->next`
4. Write a function to delete the first node (head) in a circular linked list and adjust pointers accordingly.

   Handle deletion of `head` node; update `tail->next` and free memory.

ASSIGNMENT QUESTION

5. Write a function to delete the last node in a circular linked list and ensure the list remains circular.

   Traverse to node before tail, free tail, adjust pointers.
6. Write a function to search for a given element in the circular linked list and return its position. If not found, return -1.

   Traverse circularly and find first occurrence, return position or -1.
7. Simulate a round-robin CPU scheduling algorithm using a circular linked list. Each node should represent a process with:
   - process ID
   - burst time
   - remaining time

   Implement a scheduler that:
   - Executes each process in a round (e.g., 2 time units)
   - Removes processes once their burst time is complete
   - Displays each scheduling step and remaining queue