Question 1	In addition to the data and next components, the linked list must also contain what other components?
Not yet answered Marked out of 1.00 Flag question	Select one: a. Sorting information about the list b. Head pointer to the first node c. The current node that was last accessed

```
while (current != NULL)
Flag question
                    { current = current->next; }
                   Select one:
                          a. It traverses the list
                          b. It initializes the list
                          c. It counts the number of items in the list
```

current = head;

What does the following fragment of code do with a linked list?

Question 2

Not yet answered

Marked out of 1.00

```
Question 3
                  What is the functionality of the following code?
Not yet answered
                     public void function(Node node)
Marked out of 1.00
Flag question
                               if(size == 0)
                                          head = node;
                               else
                                          Node temp, cur;
                                          for(cur = head; (temp = cur.getNext())!=null; cur = temp);
                                          cur.setNext(node);
                               size++;
                  Select one:
                        a. Inserting a node at the end of the list

 Inserting a node at the beginning of the list

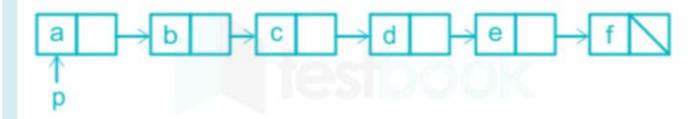
                        c. Deleting a node at the beginning of the list
                        d. Deleting a node at the end of the list
```

Question 4	Linked Lists stores elements in a contiguous memory locations
Not yet answered	Select one:
Marked out of 1.00	O True
Flag question	False

Question 5

Not yet answered

Assume that p and q are pointers. What will be the output after performing the following sets of operations on a given linked list? struct node{ char data; struct node *next;



Operations are

I. q=p→next→next;

II. p→next→next=q→next→next;

III. q→next→next→next=q→next;

IV. printf("%c", p→next→next→next→next→data);

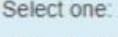
Select one:

- a. error
- b. 0
- O C. 6
- d. segmentation fault

Question 6 Not yet answered Marked out of 1.00 Flag question

Convert the following prefix expression to its infix equivalent

+-*^ABCD//EF+GH



- a. A^B*C-(D+E)/F/(G+H)
- b. A^B*C-D+(E/F)/(G+H)
- C.A^B*C-D+E/F/(G+H)
- O d. A * B * C D + E / (F / (G + H))

Question 7 Not yet answered Marked out of 1.00 Flag question

A stack follows what structure

a. FILO

Select one:

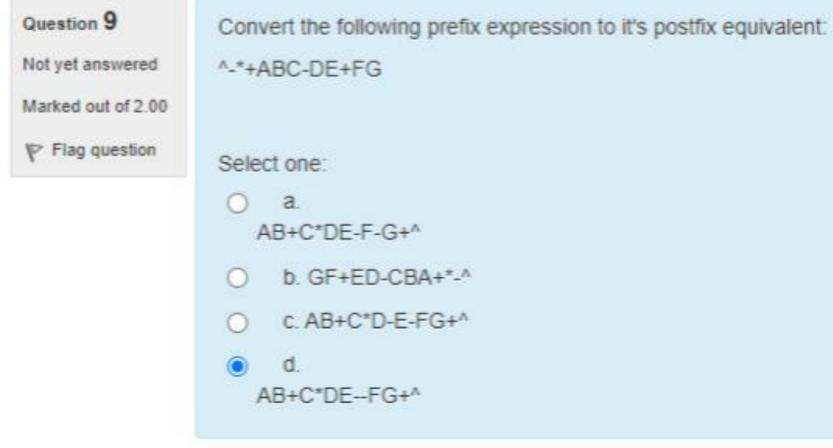
LU

b. FIFO

c. LILO

d. LIFO

Question 8	Which of the following is NOT a common application of stacks in computer science?	
Not yet answered		
Marked out of 1.00		
Flag question		
	Select one:	
	a. Storing browser history in web browsers	
	b. Solving complex mathematical equations	
	c. Implementing function calls and recursion	
	d. Parsing expressions	



uestion 10	Which of the following is NOT a common operation in a queue data structure?
lot yet answered farked out of 1.00 P Flag question	Select one: a. Front b. Shuffle c. Enqueue d. Dequeue

----- 10

Question 11

Not yet answered

Marked out of 1.00

Flag question

What does the given function do in general?

```
void fun(Queue *Q)
   Stack S; // Say it creates an empty stack S
   while (!isEmpty(Q))
       push(&S, deQueue(Q));
   while (!isEmpty(&S))
     enQueue(Q, pop(&S));
```

Select one:

- a. Removes the last from Q
- b. Makes Q empty
- c. Keeps the Q same as it was before the call
- d. Reverse the Q

Guodion 12
Not yet answered
Marked out of 1.00
Flag question

Select one:

a. C b. B c. A

Question 12

Which of the following is false?

A. Arrays are better than linked lists for sorting due to better data locality.
B. A doubly linked list takes at least twice the storage as of a singly linked list.
C. Given a fixed maximum size, a circular queue is preferrable to a normal queue

Question 13
Not yet answered
Marked out of 1.00
Flag question

Consider a standard Circular Queue implementation (which has the same condition for Queue Full and Queue Empty) whose size is 11 and the elements of the queue are $q[0], q[1], \ldots q[10]$.

The front and rear pointers are initialized to point at q[2]. In which position will the ninth element be added?

- A. q[0]
- B. q[1]
- C.q[9]D. q[10]

Select one:

a. D

- b. A
 - c. C

 - d. B

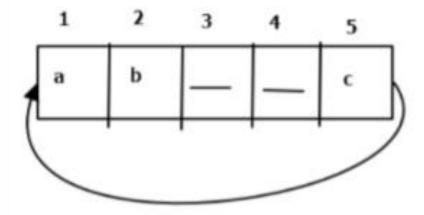
Question 14

Not yet answered Marked out of 1.00

Flag question

Assume Front at index 5 and Rear at index 2.

The initial configuration of circular queue as follows



What is status of states of queue contents after the following sequence of steps

enqueue x

dequeue

enqueue y

dequeue

dequeue

- a)x,y____
- b)x,___,y,____
- c)____,x,y,___
- d)____,x,y,____

Select one:

- (a.b
- b.c
- (c.d
- O da