## DSA\_Quiz-4\_23/3/2021

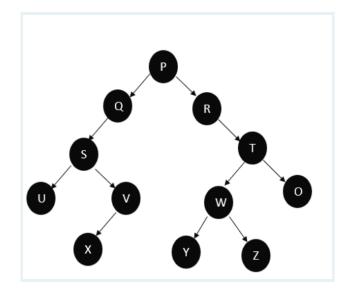
This quiz includes questions of linked list and Tree.

* -	* This form will record your name, please fill your name.		
	1		

Consider the function - attached as image:

For a given linked list p, the function f return 1 if and only if (2 Points)

- the list is empty or has exactly one element
- the elements in the list are sorted in non-decreasing order of data
- the elements in the list are sorted in non-increasing order of data
- onot all elements in the list have the same data value



Consider the given tree. What are indices of vertex V,O and Y if tree is represented using sequential representation.(Index of P is 0). (2 Points)

- 6,8,11
- 0 8,14,27
- 8,15,21
- 0 6,8,12

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Find the Preorder traversal of tree given in Q-2. (Answer Format: P,Q,R... without space)

(2 Points)

Find the Inorder traversal of tree given in Q-2. (Answer Format: P,Q,R without space) (2 Points)		
5		
Consider the following traversals of a binary tree :		
Postorder: D C B J F I H G E A Inorder: B D C A J F E G H I		
Find the Preorder traversal.(Answer Format: A,B,C without space) (2 Points)		

```
struct node
{
    int d;
    struct node *prev, *next;
}*L, *R;
void swap()
{
    p= R->prev;
    p->next = s1;
    R->prev= s2;
    s3= R;
    p->prev= s4;
    R->next= s5;
    s6;
}
```

Consider the doubly linked list where L and R denotes the addresses of left most and right most nodes.

In the code swap() function will swap the last two nodes [will swap only if linked list has more than two nodes]. Complete the statements(s1,s2,s3,s4,s5,s6) in the code: (5 Points)

- s1:NULL, s2:p->prev, s3:p->prev->next, s4:R, s5:p, s6:R=p
- s1:NULL, s2:p->prev, s3:p->prev, s4:p, s5:R, s6:p=R
- s1:p->prev, s2:NULL, s3:p->prev->next, s4:R, s5:p, s6:R=p
- s1:NULL, s2:p->prev, s3:p, s4:R, s5:p, s6:R=p

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