**1.What is Memory efficient DLL**

<https://www.hackerearth.com/practice/notes/memory-efficient-doubly-linked-list/>

**2.Can we implement trees using Arrays?**

<https://www.codesdope.com/blog/article/binary-trees-in-c-array-representation-and-travers/>

**3.How do you chose pivot in Quicksort?**

[**https://medium.com/basecs/pivoting-to-understand-quicksort-part-1-75178dfb9313**](https://medium.com/basecs/pivoting-to-understand-quicksort-part-1-75178dfb9313)

**4. If two lists can be concatenated in O(1) time, then which variation of linked list can be used?**

Circular doubly linked List

For merging of list you have to point next pointer of last node of 1st list to first node of 2nd list. To do this in O(1) time circular doubly linked list is useful. You can go to last node of 1st list by head1->next->previous. And modify this field pointing to head2->next. And also modify head2->next->previous to head1->next.

If in singly and doubly linked list pointer to last node of any one list is given then you can do the merging of two list in O(1).

<https://stackoverflow.com/questions/25938499/linked-list-concatenation-in-o1-time>

**5. How do you sort elements inside a stack by using push and pop operations with an additional stack?**

<https://www.enjoyalgorithms.com/blog/sort-stack-using-temporary-stack>

<https://youtu.be/vFOY8rd_Bcw>