Syllabus for first Midsemester exam

1. Arrays and Linked Lists
2. Pointer based data structures
3. Stacks and Queues based on pointers and arrays
4. Binary tree traversals
5. Binary search tree property
6. Binary min/max heap property
7. Traversing the array based data structure skeletal binary heap (binary heap stored ignoring the corresponding key-value property)
8. Treap (combination of binary heap and binary search tree key value properties). This does not assume the usual complete (except possibly in the last level) property associated with the standart binary heap. Thus a treap cannot be stored in the array based logical method. It has to be pointer based.