#### Saturday, 12 March 16

### Crux

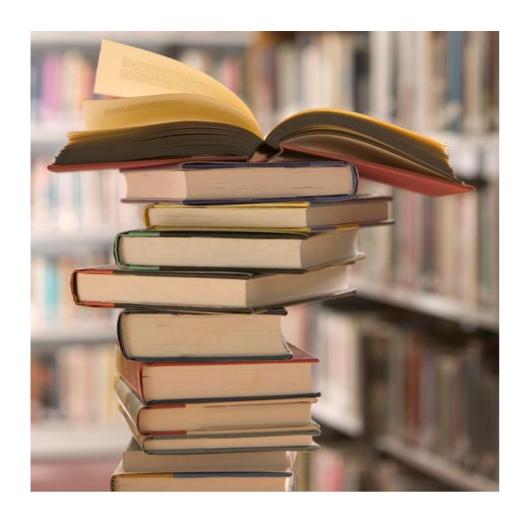
Data Structures -2

Stacks and Queues

Manisha Khattar



#### Recursion and Pile of Books





## Stacks



#### Stacks

```
class Stack{
// accessor methods
int size();
boolean isEmpty();
Object top() throws StackEmptyException;
// update methods
void push (Object element);
Object pop() throws StackEmptyException;
```



### How to implement Stack Class?

- 1. Arrays
- 2. Linked List



## Lets Implement Our Own Stack Class Using Array



# Your Turn: Implement Stack Class Using Linked List



## Lets solve few problems

- Given an expression check if brackets are balanced e.g. { a + [b+ (c + d)] + (e + f) }
- 2. Reverse a Stack with the help of another empty stack





#### Thank You!! ©

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