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# Crux

## Lecture -12

Data Structures -1

Dynamic Arrays

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# Linked List doubts?

# Dynamic Arrays

# Lets Create our own Dynamic Array Class

# Dynamic Arrays

```
class Dynamic Arrays{  
    int size();  
    boolean isEmpty();  
    int get(int index);  
    void add(int data);  
    void add(int data, int index);  
    void set(int data, int index);  
    void remove(int index);  
}
```

# Array List

# Polynomial class

# Polynomial

```
class Polynomial{  
    void setCoefficient(int degree, int coeff1);  
    int degree();  
    int evaluate(int x);  
    Polynomial add(Polynomial p);  
    Polynomial subtract(Polynomial p);  
    Polynomial multiply(Polynomial p);  
    Boolean isEqual(Polynomial p);  
}
```





# Complex Number Class

# Complex Number

```
class Complex{  
    double abs();  
    Complex add(Complex c);  
    Complex subtract(Complex c);  
    Complex multiply(Complex c);  
    Complex conjugate();  
}
```



Thank You !! 😊

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