1. **Write a program contains a class Data that has data members: A[20] (double), B[20] (double), n (number of elements of A and B). This class contains the following:**
    a. **Operator >> (input only A's elements)**
    b. **Function to set the elements of B such that each B_i is equal to** $\sum_{j=0}^{i+1} \frac{n-i+j}{A_j}$.
    c. **Operator << (only A).**
    d. **Operator [ ] (used to display B' s elements)**
    e. **Operator -=**
    f. **Operators: ++ postfix, ++prefix**
    g. **Operator >= (only B)**

In main function, define several objects and apply all functions and operators on them.

2. **Write a program contains a class Mark that has data members: M[20][20] (double), n (dimension of matrix), m (dimension of matrix). This class contains the following:**
    i. **Operator >> (input only all elements of M except last row),**
    ii. **Function to set the elements of last row such that each element** $M_{n-1,i} = \sum_{j=0}^{n-2} \frac{M_{j,i}}{n-1}$ **(for i=0…m-1).**
    iii. **operator << (display only all elements of M except last row),**
    iv. **Operator [ ] (used to display only elements of last row)**

v. **Operator +=**

vi. **Operator > (to compare between two last rows for two objects).**

vii. **Operators :-- postfix, --prefix**

In main function, define several objects and apply all functions and operators on them.