Matrix

+ r : double**
+ rowCount: int
+ colomnCount: int

+ Matrix()
+ Matrix(int n)
+ Matrix(int row, int column)
+ Matrix(double *)
+ Matrix(const Matrix& m)
+ ~Matrix()

+ setValue(int r, int c, double value): void
+ getValue(int r, int c): double
+ clear(): void
+ getRowCount(): int
+ getColumnCount(): int
+ printMatrix(): void
+ showRank(): void
+ getSMatrix(): void
+ getQMatrix(): void
+ getRank(): void

+ operator=(const Matrix&): Matrix
+ &operator*=(const Matrix& m): Matrix
+ &operator+=(const Matrix& m): Matrix
+ &operator-=(const Matrix& m): Matrix
+ operator*(const Matrix&)const: Matrix
+ operator+(const Matrix&)const: Matrix
+ operator-(const Matrix&)const: Matrix
+ operator++(int): Matrix
+ operator++(): Matrix
+ operator--(int): Matrix
+ operator--(): Matrix
+ operator==(const Matrix&): bool
+ operator!=(const Matrix&): bool