

matrix

row : int  
col : int  
size : int  
matrix\_arr : double[]  
TOLERANCE : double

matrix();  
matrix(int n);  
matrix(int r, int c);  
matrix(double array[], int n);  
matrix(const matrix &m);  
matrix& operator=(matrix&& mat2);  
void set\_value(int r, int c, double value);  
double get\_value(int r, int c) const;  
void clear();  
int get\_row() const;  
int get\_col() const;  
int get\_size() const;  
virtual ~matrix()  
friend std::ostream& operator<<(std::ostream& out, matrix& matrix  
static constexpr double TOLERANCE = 0.0001;  
friend bool operator==(const matrix& mat1, const matrix& mat2);  
friend bool operator!=(const matrix& mat1, const matrix& mat2);  
matrix& operator++();  
matrix operator++(int);  
matrix& operator--();  
matrix operator--(int);  
matrix& operator+=(const matrix& mat2);  
friend matrix operator+(matrix lhs, const matrix& rhs);  
matrix& operator-=(const matrix& mat2);  
friend matrix operator-(matrix lhs, const matrix& rhs);  
friend matrix operator\*(const matrix& lhs, const matrix& rhs);  
matrix& operator\*=(const double& num);

pagerank

double array[16];  
int count = 0;  
int sum;

const double P{0.85};  
void open\_file();  
void create\_ranks(matrix& mat);  
void importance(matrix& mat);  
void set\_n(matrix& mat);  
void check(matrix& mat);  
void divide\_sum(matrix& mat);  
void rankmatrix();

parent

child

Exception

+ field: type

| negative_exception | zero_exception | sqrt_exception | bound_exception | size_exception |
|--------------------|----------------|----------------|-----------------|----------------|
| struct             | struct         | struct         | struct          | struct         |
| exception          | exception      | exception      | exception       | exception      |