## QRFactor

```
QRFactor()
{
    m_coefficients = new Coefficients;
    m_sparse = new Sparse;
}
~QRFactor()
{
    delete m_coefficients;
    delete m_sparse;
}


Coefficients* m_coefficients;
Sparse* m_sparse
```

## Coefficients

```
typedef std::vector<Eigen::Triplet<double>> T

public:
    T coefficients{};
    void setElement(index, row, col, value);
    void resize(newsize);
```

## Sparse

```
public:
    Eigen::SparseMatrix<double,
        Eigen::StorageOptions::RowMajor> sparse{};
    void setFromTriplets(Coefficients *&coeff);
    int getNonZeros();
```