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/**
 * @file      MyDouble.h
 * @synopsis   MyDouble-Klasse Deklaration
 * @author     Jan Tammen (FH Konstanz), <jan.tammen@fh-konstanz.de>
 * @date       2005-03-21
 */

#ifndef MYDOUBLE_H
#define MYDOUBLE_H

#include <iostream>
#include "Langzahl.h"

class MyDouble : public virtual Langzahl
{
public:
    /// Konstruktoren + Destruktor
    MyDouble (void);
    MyDouble (double number);
    ~MyDouble ();

    /// Ueberladene Operatoren
    MyDouble& operator= (const MyDouble& z);
    MyDouble operator+ (const MyDouble& z) const;
    MyDouble operator- (const MyDouble& z) const;
    MyDouble operator* (const MyDouble& z) const;
    MyDouble& operator+= (const MyDouble& z);
    MyDouble& operator-= (const MyDouble& z);
    MyDouble& operator*= (const MyDouble& z);
    MyDouble operator- (void) const;

    /// Ausgabeoperator
    friend std::ostream& operator<< (std::ostream& s, const MyDouble& z);

    /// Zugriffsmethoden
    long double getKehrwert (void) const    { return (1.0/mNumber); }
    long double getNumber (void) const      { return mNumber;       }
    void        setNumber (double n)        { mNumber = n;           }

private:
    long double mNumber;
};

#endif

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