

ПРЕДЕФИНИРАНЕ НА ОПЕРАТОРИ

Да се напише клас, представляващ рационално число, състоящо се от целочислени числител и знаменател. Класът има следната декларация:

```
class RationalNumber
{
    int numerator;
    int denominator;
public:
    RationalNumber();
    RationalNumber(int numerator, int denominator);
    RationalNumber(const RationalNumber& other);

    RationalNumber& operator =(const RationalNumber&
other);

    ~RationalNumber();

    RationalNumber operator +(const RationalNumber&
other) const;
    RationalNumber operator -(const RationalNumber&
other) const;
    RationalNumber operator *(const RationalNumber&
other) const;
    RationalNumber operator /(const RationalNumber&
other);

    bool operator ==(const RationalNumber& other) const;
    bool operator !=(const RationalNumber& other) const;
    bool operator <(const RationalNumber& other) const;
    bool operator >(const RationalNumber& other) const;

    friend ostream& operator <<(ostream& os, const
RationalNumber& number);
    friend istream& operator >>(istream& is, const
RationalNumber& number);
};
```