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Simple Fraction Class

Code Id 41

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Title Simple Fraction class

Description

raction and then the program will print the fraction added together and reduced

Codes Snippet

```
#include

void ReadFraction(int &Num, int &Denom, int &Num2, int &Denom2)
/* This function will allow the user to enter two fraction. */
{
    cout << "Enter the numerator for the first fraction: ";
    cin >> Num;
    cout << "Enter the denominator for the first fraction: ";
    cin >> Denom;
    cout << endl;
    cout << "Enter the numerator for the second fraction: ";
    cin >> Num2;
    cout << "Enter the denominator for the second fraction: ";
    cin >> Denom2;
    cout << endl;
}

//-----

void Reduce(int &Num, int &Denom, int &Num2, int &Denom2)
/* This function is called after ReadFraction(). This function will
reduce the two fractions.
Pre: Two Fractions
Post: Two reduced fractions */
{
    int a, b, c, d, i, j = 0;

    a = Denom;
    b = Num;
    c = Denom2;
    d = Num2;

    for (i = a * b; i > 1; i--)
    {
        if ((a % i == 0) && (b % i == 0))
        {
            a /= i;
            b /= i;
        }
    }

    for (j = 50; j > 1; j--)
    {
        if ((c % j == 0) && (d % j == 0))
        {
            c /= j;
            d /= j;
        }
    }

    Denom = a;
    Num = b;
    Denom2 = c;
    Num2 = d;
}
```

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```

int b = 0;
int i = 0;

a = Denom;
b = Num;

for (i = 50; i > 1; i--)
{
    if ((a % i == 0) && (b % i == 0))
    {
        a /= i;
        b /= i;
    }
}

Denom = a;
Num = b;
}

//-----

void AddFraction(int &Num, int &Denom, int &Num2, int &Denom2)
/* This function is called after Reduce. This function adds the two
fractions Reduce() reduced
Pre: Two Fractions
Post: One reduced fraction */
{
    if (Denom != Denom2)
    {
        Num = Num * Denom2;
        Num2 = Num2 * Denom;
        Denom = Denom * Denom2;
        Denom2 = Denom2 * Denom;
        Num = Num + Num2;
    }
    else
    {
        Num = Num + Num2;
    }

    Reduce(Num, Denom);
}

//-----

void DisplayFraction(int &Num, int &Denom)
/* This function displays the reduced and added fraction. This
function is called after AddFraction()
Post: Prints fraction */
{
    cout << "The reduced and added fraction is " << Num << "/" << Denom << endl;
}

//-----

int main()
{
    char an;

    do
    {
        int Num, Denom, Num2, Denom2 = 0;

        ReadFraction(Num, Denom, Num2, Denom2);
        Reduce(Num, Denom, Num2, Denom2);
        AddFraction(Num, Denom, Num2, Denom2);
        DisplayFraction(Num, Denom);
        cout << endl;
    }
}

```

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