#include <iostream>

using namespace std;

class fraction{

private:

int numerator, denominator;

public:

fraction(){};

fraction(int n,int d=1) { numerator = n; denominator = d; }

void print()

{

if (denominator==0)

{

cout << "CAN NOT DIVIDE BY ZERO" << endl;

}

else if (denominator<0)

{

cout << "CAN NOT DIVIDE BY NEGATIVE" << endl;

}

else

cout << numerator << "/" << denominator << endl;

}

void print2() { cout << numerator << "/" << denominator << endl;}

fraction operator+(fraction x)

{

fraction c;

c.numerator=numerator+x.numerator;

c.denominator=denominator+x.denominator;

return c;

}

fraction operator-(fraction x)

{

fraction c;

c.numerator=numerator-x.numerator;

c.denominator=denominator-x.denominator;

return c;

}

fraction operator\*(fraction x)

{

fraction c;

c.numerator=numerator\*x.numerator;

c.denominator=denominator\*x.denominator;

return c;

}

};

int main(){

fraction F1(3,0),F2(1,1),F3;

cout<<"The numerator and denominator 1"<<endl;

F1.print();

cout<<"The numerator and denominator 2"<<endl;

F2.print();

F3=F1+F2;

cout<<"plus tow fraction is"<<endl;

F3.print2();

F3=F1-F2;

cout<<"SUB tow fraction is"<<endl;

F3.print2();

F3=F1\*F2;

cout<<"MULTI tow fraction is"<<endl;

F3.print2();

return 0;

}