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//FunnyFraction
//Yashas Ravi


public class FunnyFraction {

	private int numerator;
	private int denominator;

	//Default Constructor
	public FunnyFraction () {
		numerator = 0;
		denominator = 1;
	}


	//Parameterized Constructor
	public FunnyFraction (int n1, int d1) {
		numerator = n1;

		if (d1 != 0) {
		denominator = d1;
		}
		else {
		denominator = 1;
		}
	}

	//Operators
	public FunnyFraction FunnyAdd (FunnyFraction f) {
		int retN = this.numerator + this.denominator + f.numerator + f.denominator;
		int retD = (this.numerator + f.numerator)*(this.denominator + f.denominator);
		if (retD == 0) {
			retD = -1;
		}
		FunnyFraction retF = new FunnyFraction (retN, retD);
		return retF;
	}

	public FunnyFraction FunnySubstract (FunnyFraction f) {
		int retN = f.denominator - (this.numerator  + f.numerator + this.denominator);
		int retD = (f.numerator - this.numerator)*(f.denominator - this.denominator);
		if (retD == 0) {
			retD = -1;
		}
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		FunnyFraction retF = new FunnyFraction (retN, retD);
		return retF;
	}

	public FunnyFraction FunnyMult (FunnyFraction f) {
		int retN = (int) (Math.sqrt(((this.numerator - f.numerator)*(this.numerator - f.numerator) + this.denominator)));
		int retD = (int) (Math.pow((this.denominator - f.denominator),2)) - f.numerator;
		if (retD == 0) {
			retD = -1;
		}
		FunnyFraction retF = new FunnyFraction (retN, retD);
		return retF;
	}

	public FunnyFraction FunnyDivide (FunnyFraction f) {
		int retN = this.numerator * f.denominator;
		int retD = this.denominator * f.numerator;
		if (retD == 0) {
			retD = -1;
		}
		FunnyFraction retF = new FunnyFraction (retN, retD);
		return retF;
	}

	//Accessors
	public int getNumerator () {
		return numerator;
	}

	public int getDenominator () {
		return denominator;
	}

	//toString
	public String toString () {
		return numerator + "/" + denominator;
	}

}
```

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public class FunnyFractionTester {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		FunnyFraction f1 = new FunnyFraction (3,4);
		FunnyFraction f2 = new FunnyFraction (5,6);

		System.out.println(f1.FunnyAdd(f2));
		System.out.println(f1.FunnySubstract(f2));
		System.out.println(f1.FunnyMult(f2));
		System.out.println(f1.FunnyDivide(f2));

	}

}
```