Polynomial

```
+ build(String) : Polynomial
+ add(Polynomial) : Polynomial
+ mul(Polynomial) : Polynomial
+ evaluate(Scalar) : Scalar
+ derivative() : Polynomial
+ toString() : String
- getMonomials() : List<Monomial>
- getArr(List) : Polynomial
```

1

1...n

Monomial

```
- exponent : int
- coefficient : Scalar
```

```
+ add(Monomial) : Monomial
+ mult(Monomial) : Monomial
+ evaluate(Scalar) : Scalar
+ derivative(Monomial) :Monomial
+ sign() : int
+ toString() : String
+ getExponent() : int
```

compose

<<Interface>>
Scalar

```
+ add(Scalar) : Scalar
+ mul(Scalar) : Scalar
+ addRational(Rational) : Scalar
+ addIntegerl(Integer) : Scalar
+ mulRational(Rational) : Scalar
+ mulIntegerl(Integer) : Scalar
+ power(int) : Scalar
+ sign() : int
+ neg() : Scalar
```

Integer

```
- number : int
```

```
+ toString() : String
+ getNumber() : int
```

Rational

```
- numerator : int
- denominator : int
```

```
+ reduce() : Rational
+ toString() : String
+ getNumerator() : int
+ getDenominator() : int
```