# Operation Class:

## Fields

### Object output

### Object input

## Methods

### Constructors

#### Empty: Operation()

#### Make new operation method: Object Operation(Object input)

### Operate

#### public Object operate(Object element)

### Library of operations relevant to combinatorics that apply to elements of a CombSet

# Function Class:

## Fields

### Function[] rule

### CombSet domain

### CombSet range

### boolean elementary

## Methods

### Constructors

#### Empty: Function()

#### Elementary Function: Function(Combset domain, Combset range, Operation)

#### Composition Function: Function(Combset domain, Combset range, Function[] rule)

### Rule Application

#### Combset applySet(Combset)

#### Combset[] applySubsets(CombSet)

#### Combset[] applyKSubsets(CombSet, int)

#### CombSet[] applyKSubsetsWith(CombSet set, int k, CombSet subset)

#### Object applyElement(CombSet set, Object index)

# CombSet Class:

## Fields

## Methods