

# Class Combinations

java.lang.Object  
Combinations

```
public class Combinations
extends java.lang.Object
```

## Constructor Summary

Constructors

Constructor and Description

Combinations()

## Method Summary

All Methods

Static Methods

Concrete Methods

Modifier and Type	Method and Description
static <T> T[][]	<b>combinations</b> (T[] list) This method computes all the combinations of objects from the input array.
static void	<b>main</b> (java.lang.String[] args) A simple main method to allow experimentation with this method.

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructor Detail

Combinations

```
public Combinations()
```

## Method Detail

### combinations

```
public static <T> T[][] combinations(T[] list)
```

This method computes all the combinations of objects from the input array. If the input array has  $n$  elements, the output array has  $2^n$  arrays, each containing from 0 to  $n$  elements taken from the input array. Elements in the output arrays are included in the order they appear in the input array. Specifically, element  $i$  of the output array contains element  $j$  of the input array if  $i / 2^j$  is odd, where  $/$  is integer division rounding down, so element 0 of the result is empty and element  $2^n - 1$  of the result has all the elements of the input.

#### Type Parameters:

$T$  - the type of the array elements

#### Parameters:

`list` - an array of the elements to compute the combinations of

#### Returns:

an array of the "subarrays" of the input

#### See Also:

[the wikipedia page for combinations](#)

### main

```
public static void main(java.lang.String[] args)
```

A simple main method to allow experimentation with this method. It simply prints out all the combinations of the command line arguments, one per line.

PACKAGE **CLASS** TREE DEPRECATED INDEX HELP

PREV CLASS **NEXT CLASS** FRAMES NO FRAMES

SUMMARY: NESTED | FIELD | CONSTR | METHOD      DETAIL: FIELD | CONSTR | METHOD