

# Class: OrAndRouteSuggester

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## OrAndRouteSuggester(strategy)

This class uses a Strategy pattern. OrAndRouteSuggester is a class that can suggest routes based on list of stops in OR-AND format users want to visit. e.g. `[[A,B],[C,D],[E],[F,G,H]]` will generate good route candidates (suggests) that goes to A or B, then C or D, then E, then F or G or H, hence the name OrAndRouteSuggester. Notice that the order could be mutated, so a route that goes to F or G or H first, then E, then A or B, then C or D is also a valid route. A suggestion is an Array of Array that look like this: `[ [E,A,F,C], [A,D,E,F], [D,E,F,A], ... ]` the top one is the most recommended one. Different subclasses have different algorithms for suggesting possible routes. Using ES6 class sugar syntax.

## Constructor

```
new OrAndRouteSuggester(strategy)
```

### Parameters:

Name	Type	Description
strategy		

Source: [StopStorage.js, line 65](#)

## Methods

```
_get_all_possible_routes(start_stop, or_and_stop_arr, end_stop) →  
{Array.Array.Stop}
```

### Parameters:

Name	Type	Description
start_stop	<a href="#">Stop</a>	starting Stop
or_and_stop_arr	Array.Array.Stop	an Array of Array of stops. See documentation of OrAndRouteSuggester for an example
end_stop	<a href="#">Stop</a>	ending Stop

Source: [StopStorage.js, line 85](#)

### Returns:

- each Array.Stop in this var is a possible route

Type

Array.Array.Stop

```
_recursive_permutations()
```

Recursive helper function for `_get_all_possible_routes`. Get all possible permutations of the argument. e.g. `[[A,B],[C,D],[E],[F,G,H]]` --> `[[C,D],[A,B],[E],[F,G,H]]` is one possible permutation.

Source: [StopStorage.js, line 110](#)

## `_recursive_routes()`

Recursive helper function for `_get_all_possible_routes`. Get all possible OR-AND route. e.g. `[[A,B],[C,D],[E],[F,G,H]] --> [A,C,E,G]` is one possible OR-AND route.

Source: [StopStorage.js, line 134](#)

`suggest(start_stop, or_and_stop_arr, end_stop, max_num) → {Array.Array.Stop}`

### Parameters:

Name	Type	Description
<code>start_stop</code>	<a href="#">Stop</a>	starting Stop
<code>or_and_stop_arr</code>	<code>Array.Array.Stop</code>	an Array of Array of stops. e.g. <code>[[A,B],[C,D],[E],[F,G,H]]</code>
<code>end_stop</code>	<a href="#">Stop</a>	ending Stop
<code>max_num</code>	Number	maximum number of routes to suggest

Source: [StopStorage.js, line 74](#)

### Returns:

- each `Array.Stop` in this var is a SUGGESTED route

Type

`Array.Array.Stop`