pgRouting Directed Chinese Postman

Calculates the shortest circuit path which contains every edge in a directed graph and starts and ends on the same vertex.

The time complexity for the algorithm using Minimum-cost Maximum-flow approach is $O(E * (E + V \log V))$.



Data

```
CREATE TABLE edge_table (
    id BIGSERIAL,
    source BIGINT,
    target BIGINT,
    cost FLOAT,
    reverse_cost FLOAT
);
```



```
INSERT INTO edge_table (
    source, target
    cost, reverse_cost) VALUES
(0, 1, 1, 1), (1, 2, 1, -1),
(2, 0, 1, -1);
```



Results

se	eq		node		edge		cost		agg_cost
		-+-		-+-		-+-		•+•	
	1		2		3		1		0
	2		0		1		1		1
	3		1		1		1		2
	4		0		1		1		3
	5		1		2		1		4
	6		2		-1		0		5
(6	rows)								



