Documentation Lab2

Graph 1k execution:

```
Enter the first vertex: 1
Enter the second vertex: 100
[1, 5, 487, 175, 699, 624, 100] - 6
```

```
Enter the first vertex: 100
Enter the second vertex: 1
[100, 416, 354, 865, 109, 1] - 5
```

Graph 10k execution:

```
Enter the first vertex: 1
Enter the second vertex: 100
[1, 3300, 2607, 523, 6311, 5359, 9794, 5173, 100] - 8
```

```
Enter the first vertex: 100
Enter the second vertex: 1
[100, 2398, 3054, 5232, 8217, 2478, 7151, 1] - 7
```

Graph.Out()

1	[2,5]
2	[5,6]
3	[]
4	[3,5]
5	[2,3]
6	[]
7	[]

Graph.In()

1	[]
2	[1,5]
3	[4,5]
4	[]
5	[1,2,4]
6	[2]
7	[]

Start=1 End=3	Queue	visited	Node	Path	new_path	Children
Initialization	Queue=[[1]]	Visited=[]				1->2,5 2->5,6 3-> 4->3,5 5->2,3 6-> 7->
Iteration 1 1.1 1.2 1.3	Queue=[] Queue=[] Queue=[[1]] Queue=[[1],[1,2]]	Visited=[1] visited=[1] visited=[1,2] Visited=[1,2,5]	Node=1 Node=1 Node=2 Node=5	Path=[1] Path=[1] Path=[1,2] Paths=[1]	 new_path=[1] new_path=[1,2] new_path=[1.5]	
Iteration 2 2.1	Queue=[[1],[1,2],[1,5]] Queue=[[1],[1,2]]	Visited=[1,2,5] Visited=[1,2,5,3]	Node=2 Node=3	Path=[1,5]	new_path=[1,5,3] /\ Child==End=>return new_path	