# + Source code

# 不是32 月的少年的时 到到现代表的性点

1. Solve the four given 8-puzzle problems with Depth First search (DFS), and Breadth First search (BFS).

### \* Problems:

4	1			4	3	1	3	1			1	2
6	3	2		6	5	2	4	5	2	3	4	5
7	5	8			7	8	6	7	8	6	7	8
P1					P2			P3			P4	

- Fill in the blanks of the following table if fine driver

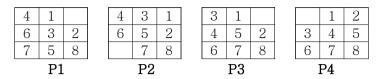
		P1			P2			Р3		P4		
	VISIT	OPEN	LEN	VISIT	OPEN	LEN	VISIT	OPEN	LEN	VISIT	OPEN	LEN
DFS	51913	34856	51023	39652	26126	36933	91284	92438	66501	112906	42687	63163
BFS	601	359	[]	400h	22/15	15	19540	9560	19	83/183	23915	23

VISIT: the total number of visited nodes
OPEN: the maximum size of the OPEN list

LEN: the length of the found solution

# 2. Solve the four given 8-puzzle problems with A\*

#### \* Problems:



# \* Heuristic

H1: # of tiles out of place

H2: summation of the manhattan distance to the place

## - Fill in the blanks of the following table

		P1			P2			P3			P4		
		VISIT	OPEN	LEN									
A	Н1	32	24	[]	194	126	15	1311	115	Lg	6444	3533	23
A*	H2	13	12	11	44	35	15	156	[0]	(9	186	419	23

**VISIT:** the total number of visited nodes **OPEN:** the maximum size of the OPEN list

LEN: the length of the found solution