PA3 Report
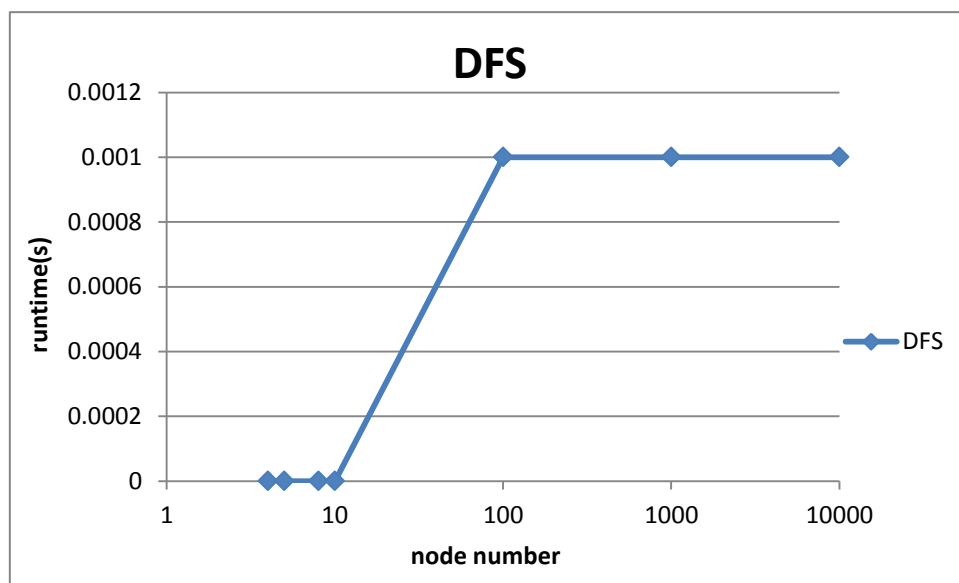
物理四 B01202036 劉子禎

1. Performance table:
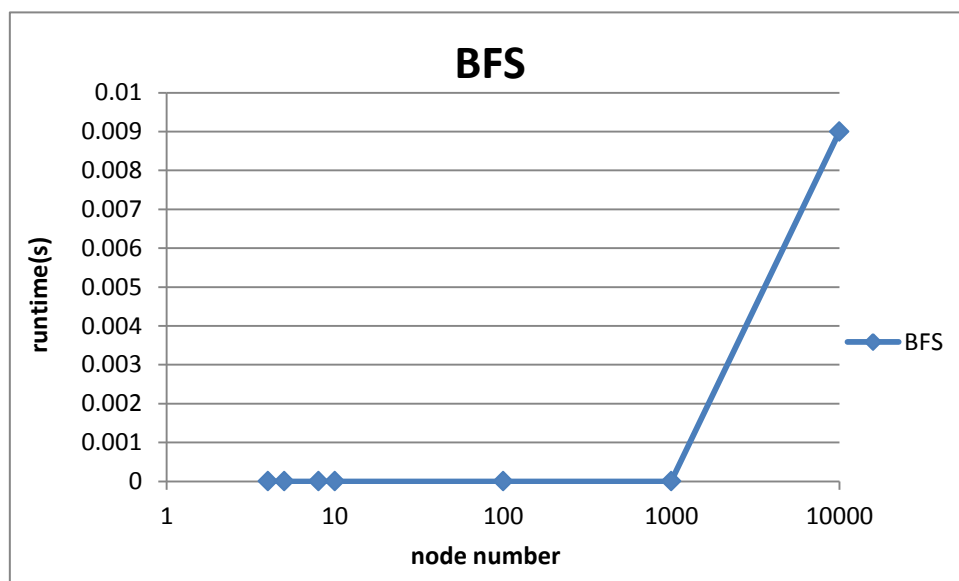
input file	input size vertices/edges	DFS Runtime (s)	memory (MB)	BFS runtime (s)	memory (MB)	Dijkstra mini-weight	runtime (s)	memory (MB)
gn4	4/5	0	12.004	0	12.004	3	0	12.008
gn5	5/8	0	12.004	0	12.004	3	0.001	12.008
gn8	8/12	0	12.004	0	12.004	10	0	12.008
gn10	10/21	0	12.004	0	12.004	128	0	12.008
gn100	100/290	0.001	12.004	0	12.004	66	0	12.008
gn1000	1000/2989	0.001	12.436	0	12.436	100	0.013	12.416
gn10000	10000/29990	0.001	16.352	0.009	16.352	153	1.8827	15.74

2. Figure of runtime

DFS:

BFS:

Dijkstra: