جامعة الملك سعود
King Saud University

DIJKSTRA ALGORITHM VISUALIZATION TOOL!

IS 362 – MATHEMATICAL MODELING FOR IS

SECTION - 50106

IMPLEMENTED BY

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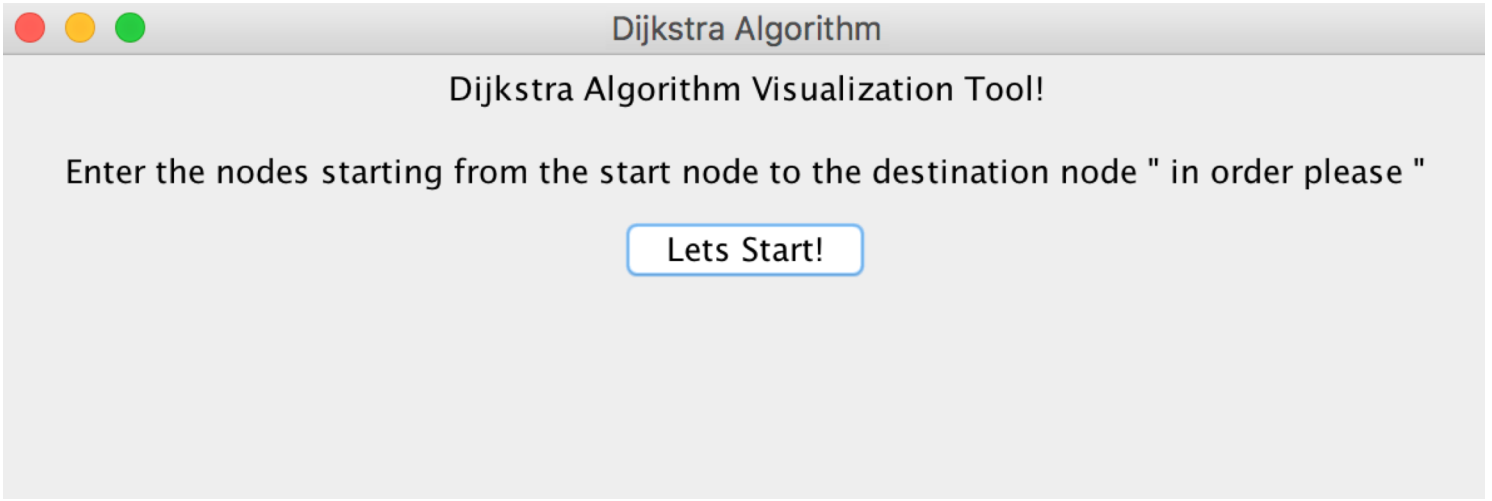
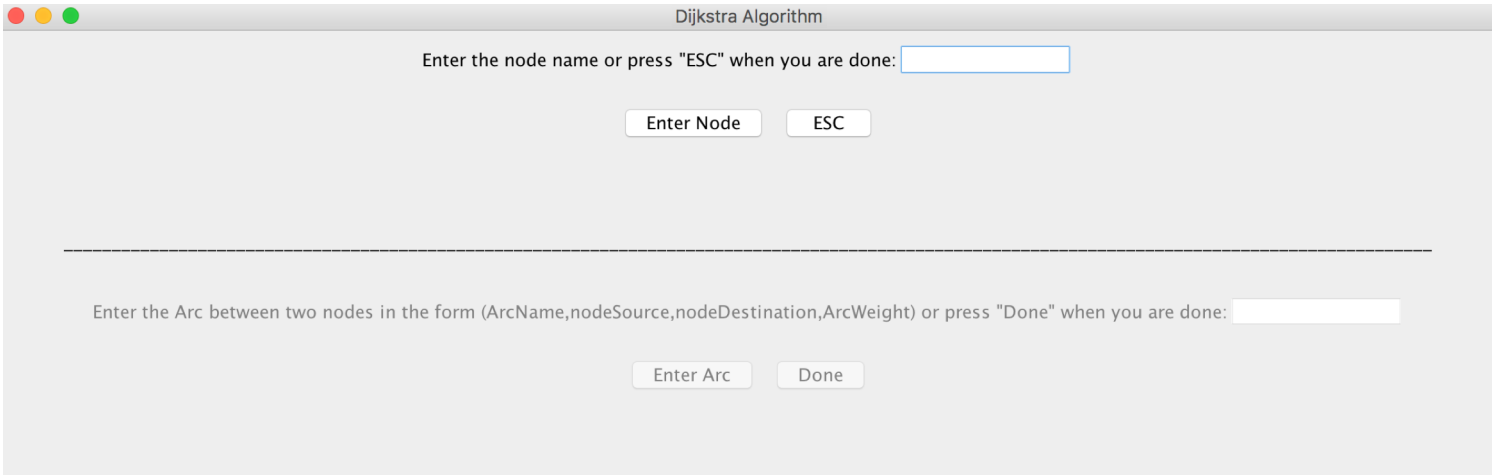
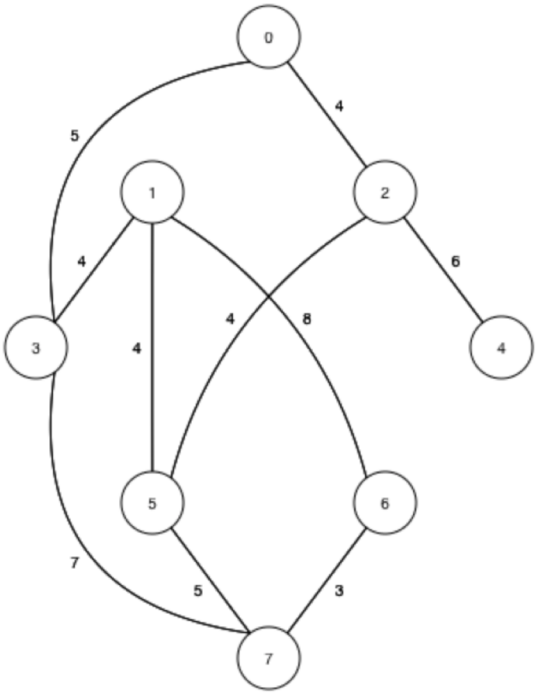
TOOL'S INTERFACES





TEST-CASE #1

GRAPH

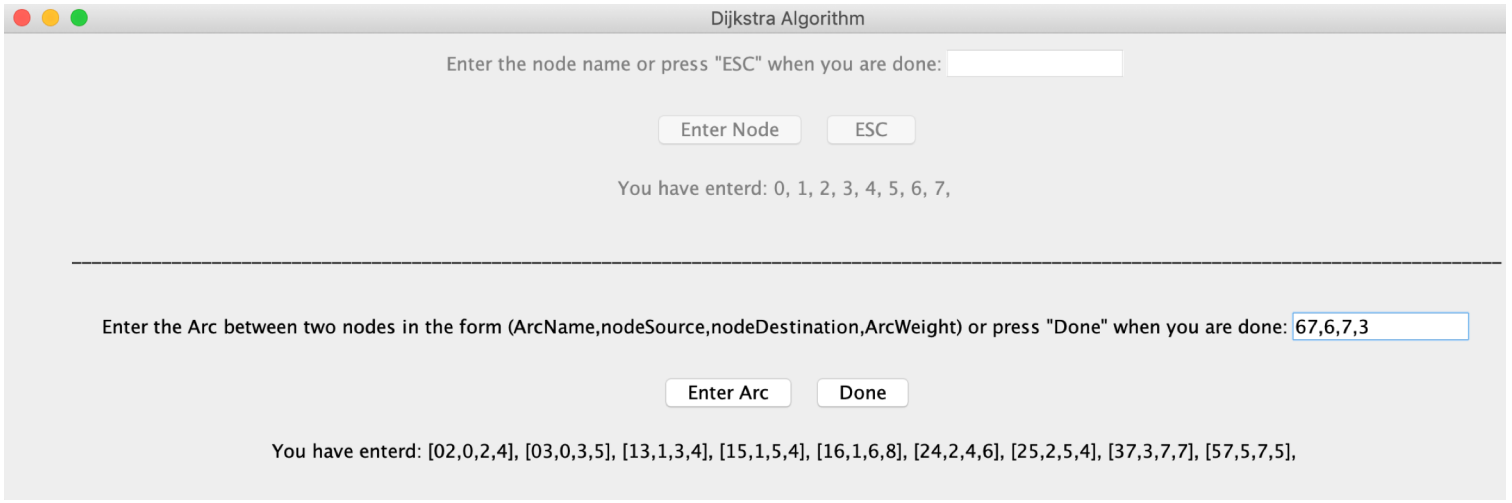


GRAPH'S OUTPUT

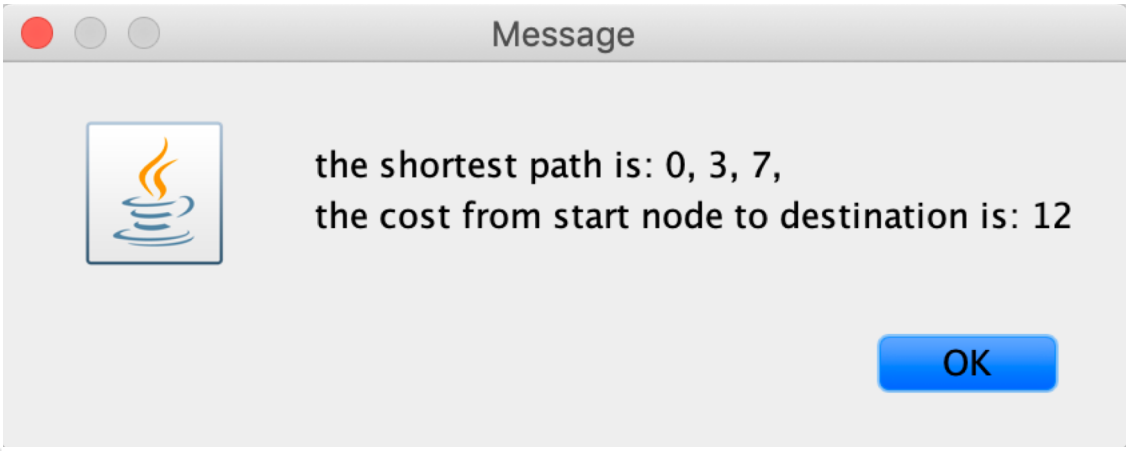
Vertex	Known	Cost	Path	
0	T	0	-1	0
1	T	9	3	0 3 1
2	T	4	0	0 2
3	T	5	0	0 3
4	T	10	2	0 2 4
5	T	8	2	0 2 5
6	T	15	7	0 3 7 6
7	T	12	3	0 3 7

TEST-CASE #1

TOOL'S INPUTS

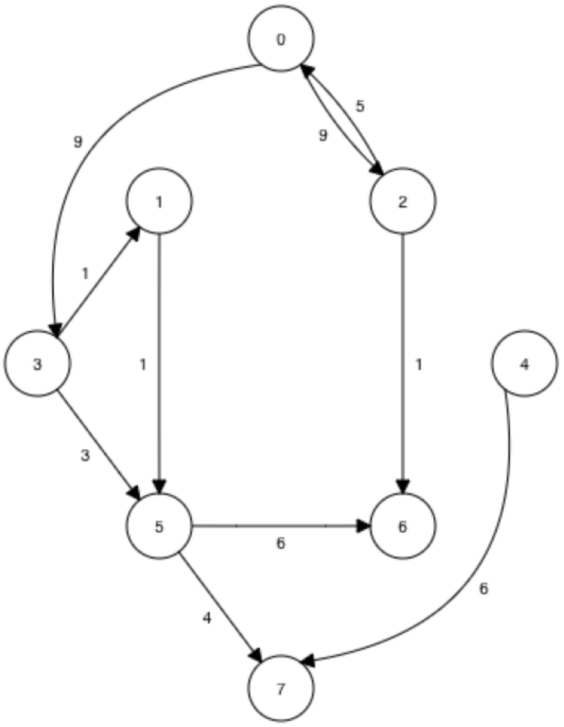


TOOL'S OUTPUTS



TEST-CASE #2

GRAPH

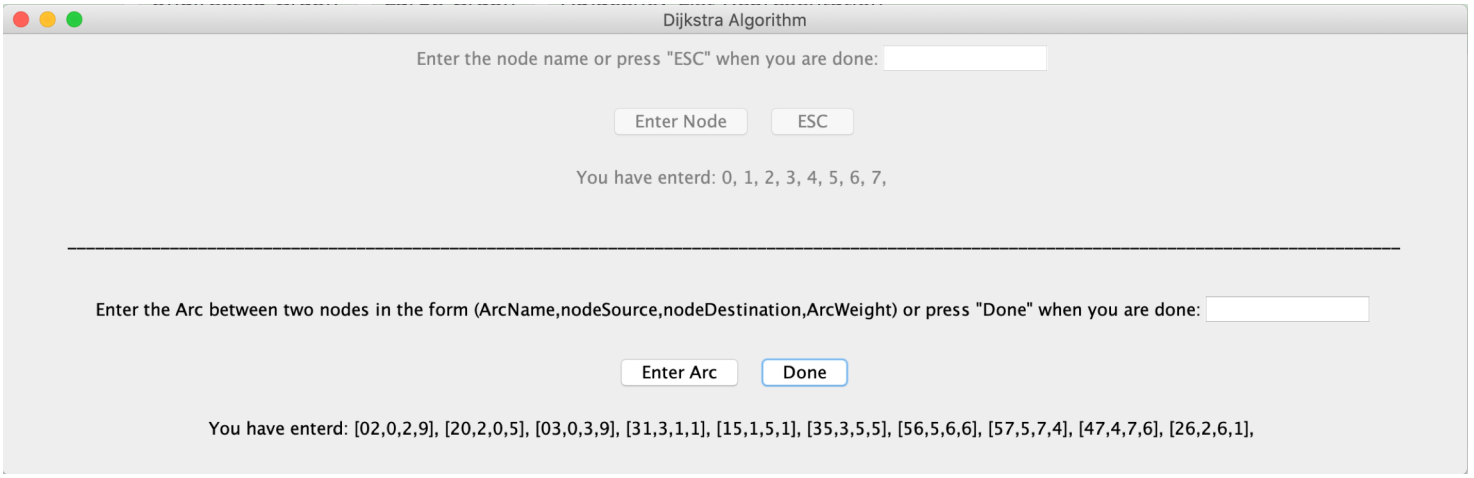


GRAPH'S OUTPUT

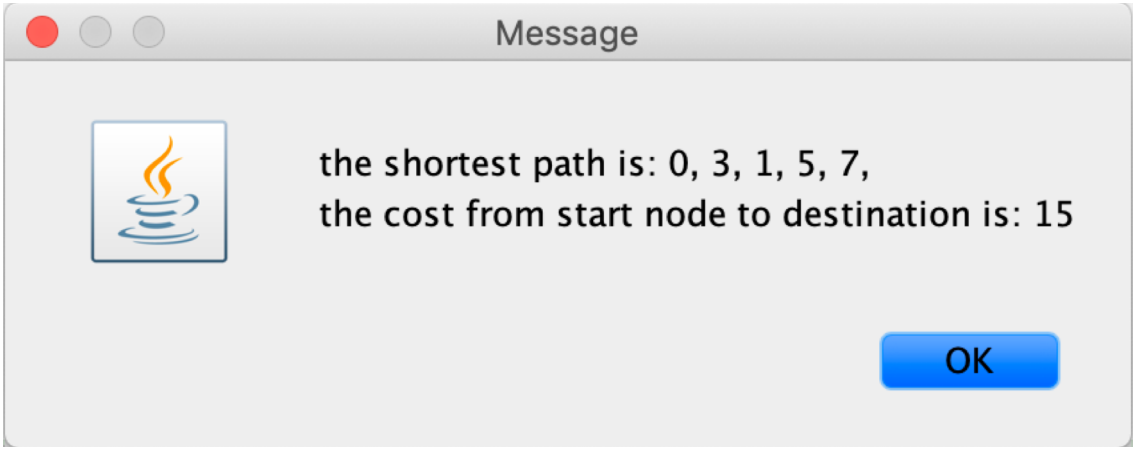
Vertex	Known	Cost	Path	
0	T	0	-1	0
1	T	10	3	0 3 1
2	T	9	0	0 2
3	T	9	0	0 3
4	F	INF	-1	No Path
5	T	11	1	0 3 1 5
6	T	10	2	0 2 6
7	T	15	5	0 3 1 5 7

TEST-CASE #2

TOOL'S INPUTS

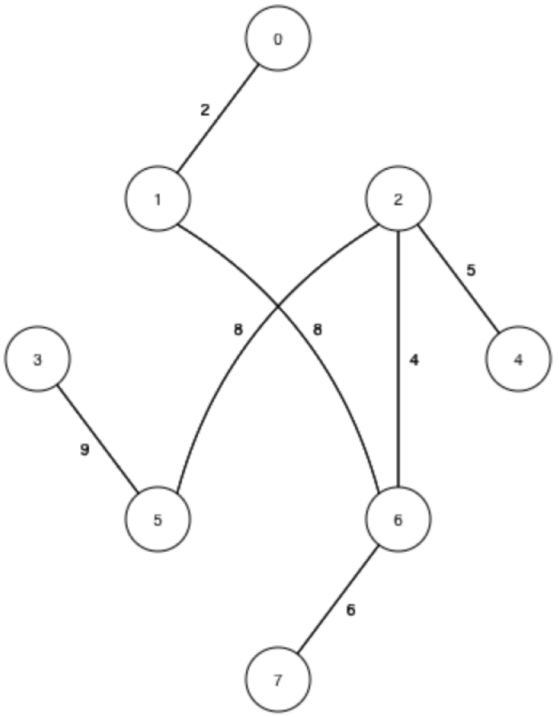


TOOL'S OUTPUTS



TEST-CASE #3

GRAPH

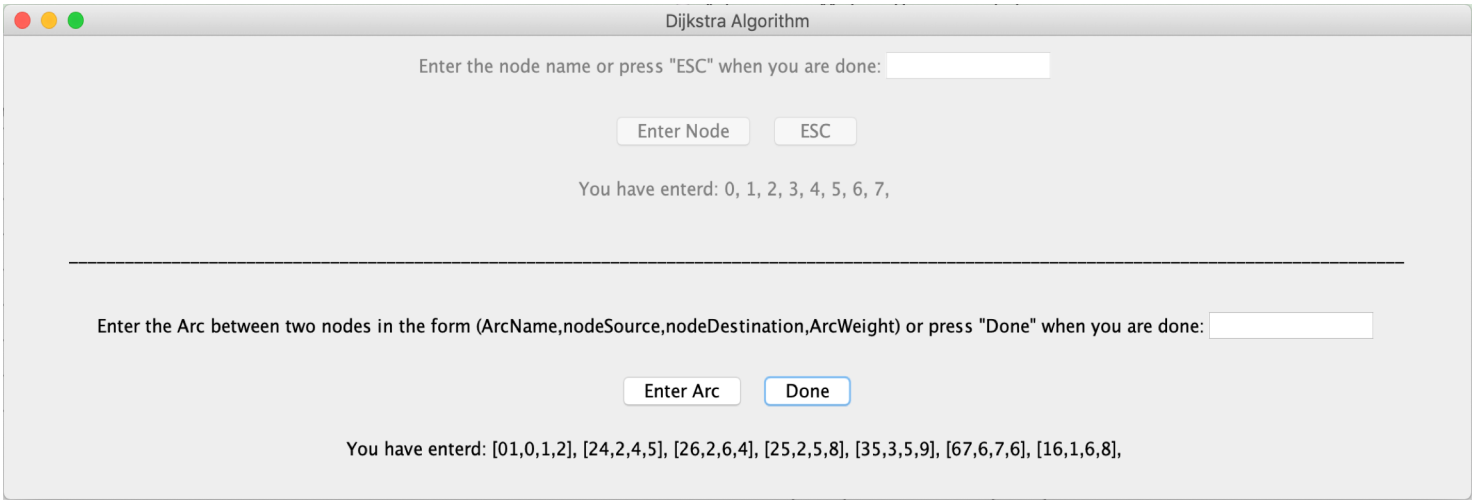


GRAPH'S OUTPUT

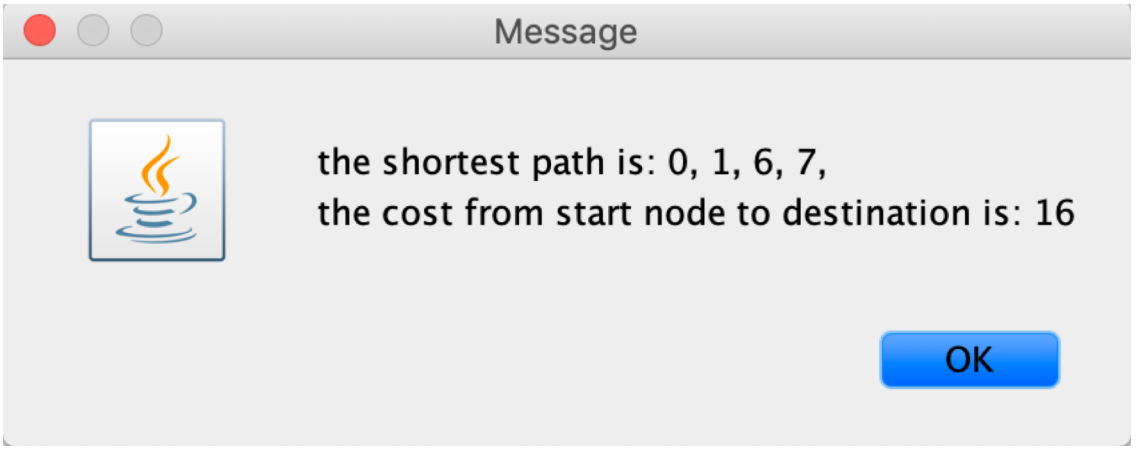
Vertex	Known	Cost	Path	
0	T	0	-1	0
1	T	2	0	0 1
2	T	14	6	0 1 6 2
3	T	31	5	0 1 6 2 5 3
4	T	19	2	0 1 6 2 4
5	T	22	2	0 1 6 2 5
6	T	10	1	0 1 6
7	T	16	6	0 1 6 7

TEST-CASE #3

TOOL'S INPUTS

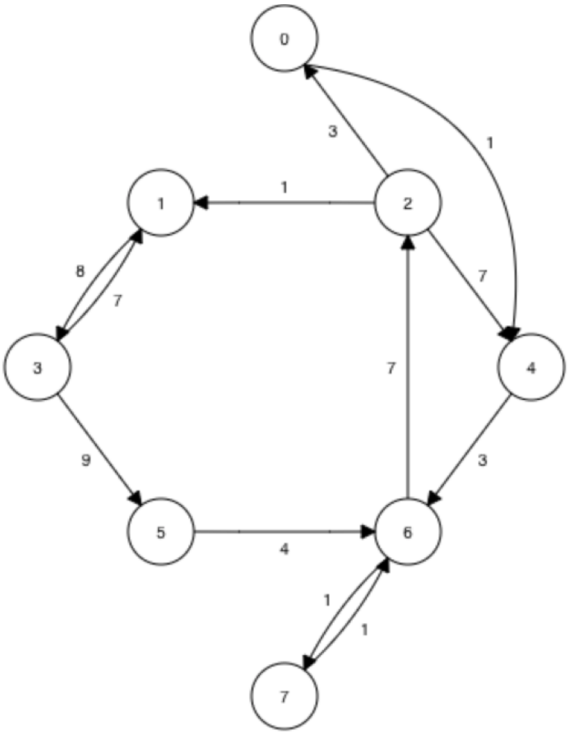


TOOL'S OUTPUTS



TEST-CASE #4

GRAPH

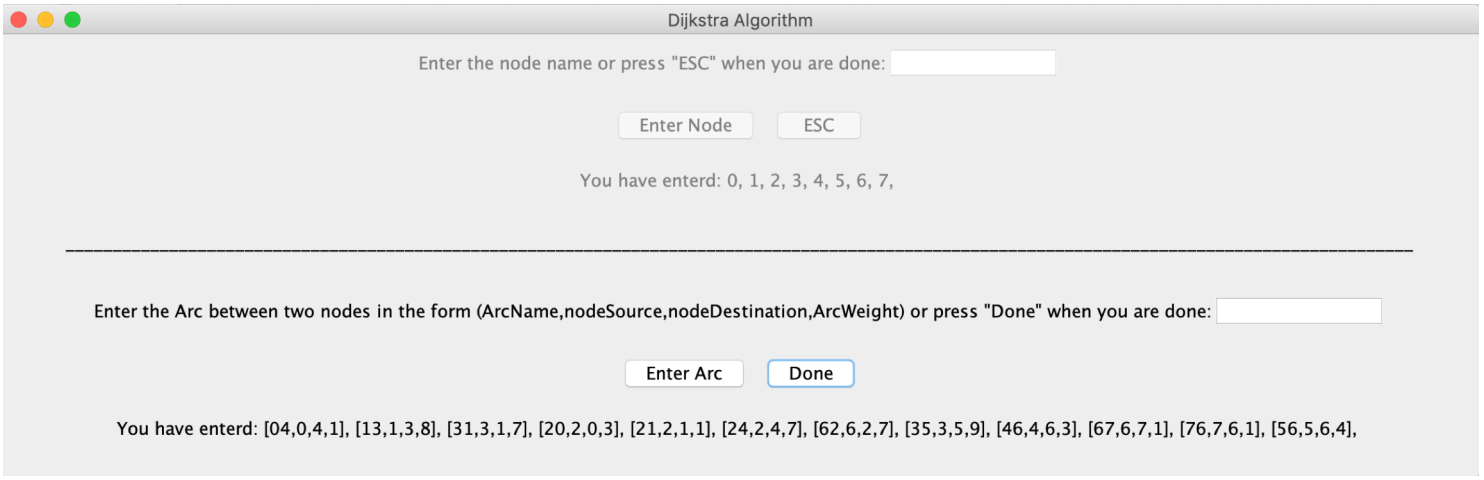


GRAPH'S OUTPUT

Vertex	Known	Cost	Path	
0	T	0	-1	0
1	T	12	2	0 4 6 2 1
2	T	11	6	0 4 6 2
3	T	20	1	0 4 6 2 1 3
4	T	1	0	0 4
5	T	29	3	0 4 6 2 1 3 5
6	T	4	4	0 4 6
7	T	5	6	0 4 6 7

TEST-CASE #4

TOOL'S INPUTS



TOOL'S OUTPUTS