

Activity 7: Learning by doing-1

Input Connection (Quick-Find)	Array id[]
	[0,1,2,3,4,5,6,7,8,9]
9-0	[0,1,2,3,4,5,6,7,8,0]
3-4	[0,1,2,4,4,5,6,7,8,0]
5-8	[0,1,2,4,4,8,6,7,8,0]
7-2	[0,1,2,4,4,8,6,2,8,0]
2-1	[0,1,1,4,4,8,6,1,8,0]
5-7	[0,1,1,4,4,1,6,1,1,0]
0-3	[4,1,1,4,4,1,6,1,1,4]
4-2	[1,1,1,1,1,1,6,1,1,1]

Input Connection (Quick-Union)	Array id[]
	[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
9-0	[0, 1, 2, 3, 4, 5, 6, 7, 8, 0]
3-4	[0, 1, 2, 4, 4, 5, 6, 7, 8, 0]
5-8	[0, 1, 2, 4, 4, 8, 6, 7, 8, 0]
7-2	[0, 1, 2, 4, 4, 8, 6, 2, 8, 0]
2-1	[0, 1, 1, 4, 4, 8, 6, 2, 8, 0]
5-7	[0, 1, 1, 4, 4, 8, 6, 2, 1, 0]
0-3	[4, 1, 1, 4, 4, 8, 6, 2, 1, 0]
4-2	[4, 1, 1, 4, 1, 8, 6, 2, 1, 0]

Input Connection (Weighted Quick-Union)	Array id[]
	[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
9-0	[9, 1, 2, 3, 4, 5, 6, 7, 8, 9]
3-4	[9, 1, 2, 3, 3, 5, 6, 7, 8, 9]
5-8	[9, 1, 2, 3, 3, 5, 6, 7, 5, 9]
7-2	[9, 1, 7, 3, 3, 5, 6, 7, 5, 9]
2-1	[9, 7, 7, 3, 3, 5, 6, 7, 5, 9]
5-7	[9, 7, 7, 3, 3, 7, 6, 7, 5, 9]
0-3	[9, 7, 7, 9, 3, 7, 6, 7, 5, 9]
4-2	[9, 7, 7, 9, 3, 7, 6, 7, 5, 7]

Input Connection (Weighted Quick-Union Path Compression)	Array id[]
	[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
9-0	[9, 1, 2, 3, 4, 5, 6, 7, 8, 9]
3-4	[9, 1, 2, 3, 3, 5, 6, 7, 8, 9]
5-8	[9, 1, 2, 3, 3, 5, 6, 7, 5, 9]
7-2	[9, 1, 7, 3, 3, 5, 6, 7, 5, 9]
2-1	[9, 7, 7, 3, 3, 5, 6, 7, 5, 9]
5-7	[9, 7, 7, 3, 3, 7, 6, 7, 5, 9]
0-3	[9, 7, 7, 9, 3, 7, 6, 7, 5, 9]
4-2	[9, 7, 7, 9, 9, 7, 6, 7, 5, 7]

