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Find the shortest paths, and their lengths, from vertex v_1 to each of the other vertices in the graph shown below. (Weights appear off the centre point of corresponding edge.)

	v_1	v_2	v_3	v_4	v_5
v_1	0	6	1	13	0
v_2	6	0	4	0	5
v_3	1	4	0	0	12
v_4	13	0	0	0	0
v_5	0	5	12	0	0

