THE GRAPH REPRESENTATION

ADJACENCY MATRIX ADJACENCY LIST ADJACENCY SET

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THIS WORKS WELL WHEN THE GRAPH IS WELL CONNECTED I.E. MANY NODES ARE CONNECTED WITH MANY OTHER NODES

THE OVERHEAD OF V² SPACE IS WORTH IT WHEN THE NUMBER OF CONNECTIONS ARE LARGE

A SPARSE GRAPH WITH FEW CONNECTIONS BETWEEN NODES MIGHT BE MORE EFFICIENTLY REPRESENTED USING ADJACENCY LIST OR SET

E = NUMBER OF EPGES

THE GRAPH REPRESENTATION

V = NUMBER OF VERTICES

	ADJACENCY MATRIX	ADJACENCY LIST	ADJACENCY SET
SPACE	V2	E+V	E+V
IS EPGE PRESENT		PEGREE OF V	LG(PEGREE OF V)
ITERATE OVER EPGES ON A VERTEX		PEGREE OF V	PEGREE OF V