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Suppose there are n vertices and m edges	$\begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 0 & 1 & 1 \\ 1 & 1 & 0 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}$	<b>sparse</b> graphs 3 0 0 0 0 3 4 3
Edge membership Is $e = \{u,v\}$ in E?	O(1)	O(deg(v)) or O(deg(u))
Neighbor query Give me v's neighbors	O(n)	O(deg(v))
Space requirements	O(n <sup>2</sup> )	O(n + m) We'll assume this representation for the rest of the class
André de Carvalho - ICMC/USP		32















Timos Sellis























































































