	classmate Date Page
	Intialize Single Source (G.S)
1	Initialize Single Source (G,S) for each ventex DEG.V
	$v \cdot d = \infty$
V	V.JT = NIL
	S. d = 0 1 1 + 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	[Denthony of Tongston and the
	Relax(u,v,w)
	if $v.d > u.d + \omega(u,v)$
	$v.d = u.d + \omega(u,v)$
	AND ARRAVATE WAS FROM
	Bellmanford Algorithm helps us find the shortest path from a vertex to all other vertices of a weighted graph.
	a vertex to all other vertices of a weighted graph.
****	It is similar to Dijkstra's algorithm but it can work with
	It is similar to Dijkstra's algorithm but it can work with graphs in which edges can have negative weights.
	Pseudocode
-	function bellman ford (G, S)
	for each vertex V in G
1	distance[V] ← ∞ previous[V] ← NULL
3	distance [S] < 0
1	for each voitex V in G
	for each edge (U,V) in G
	temp Distance = distance [u] + edge - weight (U,N)
	tempDistance ← distance [u] + edge-weight(U,V) if tempDistance < distance [v]

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	distance[v] tempDistance
	previous[V] < U
	Con sout adoptive in a
	If distance Lus + eageweight (u, v) customeer
	Error: Nigative cycle Exists
	return distance [], previous []
	2 C 12 C 10 March (OLE)
	Time Complexity: Best Case Complexity O(E) Av. Case Complexity O(VE) Worst Case complexity O(VE)
	Wout Case complexity O(VE)
	World Case completely
A dimi	Space Complexity O(V)
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	graphs in which edges can have meanth's weight
	<u>shoothings</u>
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