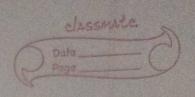


of the algorithm is of value complexity
of the algorithm is of value of or
for the comparision. Euplamation >> Is we will use 3 loops and the flag array to check if the great contains. More than one commo neighbour. 1> We will iterate till index is not equal to number of vertices. We will mark the ind update the value of element in flag actay as 1 to check if the solv has common reighbour bifirst, we will create adjacency moetrix and update the value element as I if there is an edge from vertex 1 to vertex. The Stree of matrix will be no of Vertices * no of Vertices

Is flag array is used to keep toach of the neighbour vertices. 12 We will Compare the row of vertex 1 and vertex 2; if there is more than one Common neighbour then we will return true else false Hag array and the value of another means both the vertices Share The common neighbour and hence à square cycle is found. > We will iterate first for loop till it does not becomes equal to noof Vertices. We will reset the flag array in every iteration of first for loop. We will iterate second for loop till it does not become equal to the noof vertices. if index of first for loop & Second for loop is equal, we will Continue the loop. We will use third loop for Comparision. Their index of third for loop is used to update the value of flag



The second second	Erample
	for (traphs)
	(B) (C) (D)
	(E)
	A B C D E
	Adjacency Matrix: >A O 1 1 10
	8 10001
	0 10001
-	D 10001

By using Alporithm:>

Two Vertices, A & E Share more than neighbour and B, C, D also Share more than neighbours. So in flag array Refer. the above algorithm, the flag is will be set to I for vertex A and for vertex E, we will get the flag of kinder as I, the result will be returned as true.

:. The Algorithm mentioned is correct.