Answer:	Yes, but noone has found anything
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	simple. The graph isomorphism problem
	is a potential career!
Graphs	show connections, which allow moves.
Def:	A walk on a graph G is
	any sequence of vertices for
	which successive vertices in the
	sequence are (connected by) edges.
	We say the walk uses those edges
Def:	A trail is a walk that never
0011	uses an edge more than once.
Def:	A path is a trail that never
	uses a vertex more than once
	(never revisits a vertex.).
Do.£	A cycle : ( ( ) . ( )
ne,:	A cycle is (almost) a path: it revisits only one vertex, which is
	both the starting and ending vertex.
Def:	A dosed walk has the same vertex
The second liverage and the se	us its starting and ending vertex.

	Dot. The level 1
	Def: The length of a walk (truil, path,
	cycle) is the number of edges,
	or one less than the length of
	the sequence of vertices.
	Def: The (minimum path) distance for two
	vertres x, y & V(G) is the
	minimum length of any path
	starting at x and ending at y.
	starting at x and ending at y. $d(x,y) = \min \{ length(p)   p \text{ is a path} \}$ from x to y?
	P from x to y }
	Def: The diameter diam (G) of a graph
	is the longest distance d(x,y)
	between any two vertices of G.
	(b,c,a,f) not a walk
6. /	(not anything)
	(c, b, c, d, a, f) Vwalk. Not a trail,
(F)	uses {b,c} tuice.
	(e, b, c, e, d, a) V trail. Not a path,
/	User e twice.
	(f,a,b,e,d) V path, Not acycle.
C	
	d(f,c) = 3, (f,a,b,c) or (f,a,d,c)
	diam (G) = 3
	* diameter is a graph invariant.

