- 1. Can a directed graph Compute ? it so, thou / if not, why
- 2. Quicksore 2 C, C#, Java, Python, etc... implement

1. Dreded graph CT-CV15)

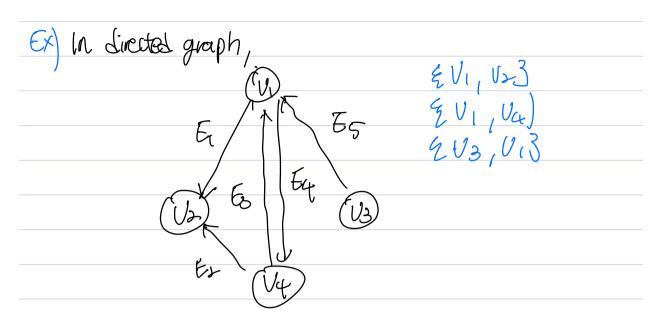
U= a finite set (20) nocks

VXV: the set of all ordered pairs of element in V

V= 2u, 63 VXU= & (a, 6a), (b, a), \$60

E= 15 a relation on V

A directed graphs is a set of vertices and a collection of directed edges that each connects an ordered pair of vertices.



If there is a grouph Edges Eins which have direction, there are 2 kinds of edges: outgoing edges, in oning edges

So we can say 
$$OE_{q}(V_{1}) = 2 (E_{1}, E_{4})$$
  
 $OE_{q}(V_{2}) = 0$   
 $OE_{q}(V_{3}) = 1 (E_{5})$   
 $IE_{q}(V_{4}) = 1 (E_{4})$ 

can these be computed?

We can use Each outgains, incoming edges as weights to show compute?