26 March 2018 Recap from end of last lecture... HAMILTONIAN CYCLE. Given directed graph G,
does it have a cycle that visits every vertex
exactly once? vertues is given graph & cycle, checks that every

2 consecutive vertices of cycle are joined by

an edge & that every vertex is sized exactly once.

... HAM CYCLE 6 NP. Next step: reduce some other NP-Complete problem to HAM CYCLE. 3SAT Sp HAM CYCLE: See book. VERTEX COVER & HAM CYCLE. (V,E,K) I directed graph. Each edge e transforms into gadget Ge: The 6 nodes in this gadget have no edges other than the ones shown. what edge of the cycle exits u? 



