Assignment 9 no Euler tour because degree of vertices c. Eulerian path if one of morn is odd. 9 d'Euler tour if both mandin are even. 2 9 2. Gissimple su no vertex of G can be degreen. Suif Vs Eu, uz un 1, then O'deglu; 1: n-1 and degluissin ? for all i if degluissi. 0 So, O' deglu; I'm ?? for n'?? which means A IXIA-15 hit deglui)? 1. Then: 5 l' degluilinil, solxienien This means that 1x1 = h. When all the vertices have their our distinct Ddegree, we need a distinct numbers assigned to 0 them. Ai stated in problem 2 where O'degluil's ? 7 or l'degluil's n-1, we have n-1 numbers 5 at max to assign à degree to n vertices. With pigeon-hole principle, that means we must have at least 2 vertices [u and v] where uz v but deglu) 5 deg(v). Il we have solf-loops, we can do where deg(1): Land deg(2):?

so each vertice has a distinct degree.

