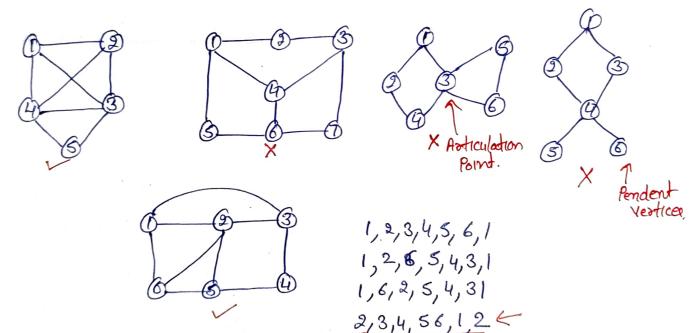
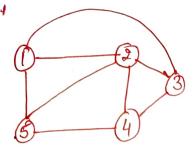
Hamiltonian Cycle ->

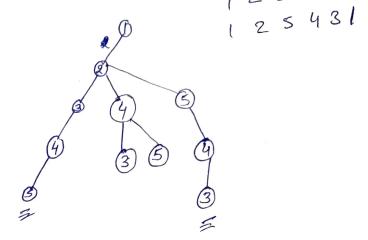
Have to start from starting vertex and visit all the vertices exactly once and return back to the starting vertex.

we have to check that is there any Hamiltonian cycle in the graph, if possible what is that cycle and if there are multiple cycle, find them all.

=> This is a N-P hard problem.







Algo: Nextvestex (K)

E do

E oc[k] = (x[k]+1) mod (n+1),

If (x[k] ==0) beturn,

If (G[x[k-1], x[k]] + 0)

E for (1=1 to k-1) do If (x[] == x[k])

break,

If (1 == k,)

If (ken or(k==n) & e

G[x[n],x[i]] +0)

Deturn,

To while toue,