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Step-1:- and along constitution oni The given problem in NP because we can verify its solution in polynomial time. we will check whether length of the solution >k and then we will check if the vertices are adjacent and unique.

Mep-2:- problem

Hamiltonian path, can be reduced to the given problem. If we wi solve the given problem for k= n-1, we will actually nolve the hymiltonian path problem.

Reduction can be done in polynomial time. Because solution to the given problem with k=n-1 can be easily reduced. The solution will have n-1 edges and all the vertices will be dintinct.

If the given problem has solution with k=n-1, there must be one hamiltonian path.

If there in a hamiltonian path, there must be a solution to the problem A with k=n-1.

Same goes for vice -versa.

So, the given problem is NP-complete.

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