Problem description

We are developing a batch installer that installs multiple interdependent soft wares.

You are required to develop a subroutine which will process software dependencies and give us a sequence for installation.

Notes:

[A,B] means A is dependent on B and the installation process needs B in our system before we install A

[A,B] , [A,C] means A is dependent on both B , C.

Input format:

Param 1: Array of dependencies: [ [1,2] , [2,3] , [3,4] , [3,5] ]

OutPut: List of soft wares in a correct sequence.

For example:

Ex1:

Input: [Single Possible Sequence]

Param 1: [[1,2],[2,3],[3,4]]

Output : 4->3->2->1

Ex2:

Input: [Multiple Possible Sequence]

Param 1: [[1,3],[2,3],[3,4]]

Output : 4->3->2->1 / 4->3->1->2 [both are true]

Ex3:

Input: [Dependency Cycle Exists ?]

Param 1: [[1,2],[2,3],[3,1]]

Output : empty list/null

Notes:

Time Allowed : 120 minutes