Cs333 hw2 Report

1. Create a 2D array nxn, n=lamps or outlets size, named checkMatchArr:
   1.1 Fill wİth 1 if the values are matcHS otherwise fill with 0
   1.2 Store the number of 1's, as int num;

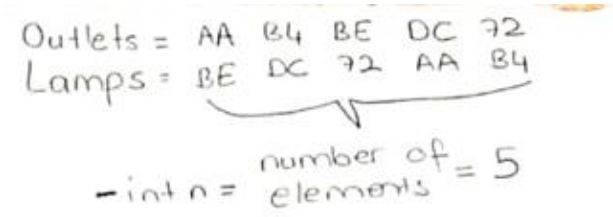
2. Create 2D array numx2, to store i and j values of 1's in nxn array, named valuesOfIJ :
   2.1 Create a new 1D array with length num, named jValues
   2.2 Copy j values to jValues from valuesOfIJ
   2.3 Call longest incresing subsequence algorithm for jValues
   2.4 Print maxMatch and the sequence of that maxMatch.

3. Create longest increasing subsequence functiion, named LIS
   3.1 Take jValues array as input
   3.2 Create a HashMap<ArrayList<Integer>, Integer>, named resultHM
   3.3 Return result

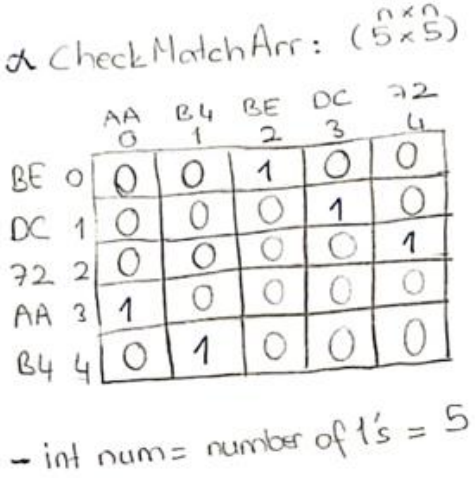
   Complecity is n^2 because we are iterating two for loops while filling the 2d array

EXAMPLE

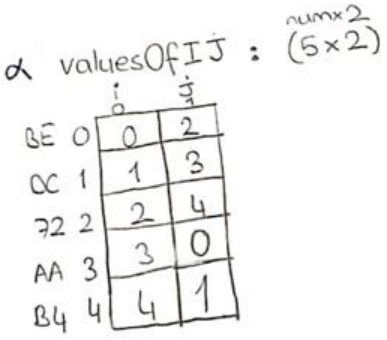
Outlets, Lamps and n are as given:



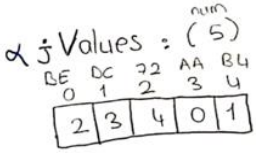
checkMatchArr and num are as given:



ValuesOfIJ is as given:



jValues is as given:



Create lamp