Problem 1: Lucky Star

Every day, the Nostalgia Movie Channel (NMC) has at least one featured movie star of the day. This star is the actor or actress that appears in the longest sequence of back-to-back movies for that day. If the appearance-sequences of several actors or actresses all have the maximum length for a day, all of these actors and actresses are featured stars for that day.

Write a program which, given a list L of movies describing the movie-schedule for a particular day where each movie is a list of the names of the actors and actresses appearing in that movie, computes and outputs the names of the featured star(s) for that day. Your input will be an (1 + |L|)-line textfile, in which the first line is the number of movies in the given schedule and the remaining |L| lines are the lists of actors and actresses appearing in each movie. Each movie star is identified by a unique alphabetic string with no embedded blanks. You may assume that all input files are formatted correctly.

Sample input #1 (available as file "test1a.dat"):

6 b c b d c d c k z c e c a d x f a

Sample output #1:

Featured star(s): c

Sample input #2 (available as file "test1b.dat"):

9 a b c b d c a c d e c a d d f a g x h c a a x y

Sample output #2:

Featured star(s): d c

Sample input #3 (available as file "test1c.dat"):

8 a b c b d c d c a c d e c a d d f a g a h c a

Sample output #3:

Featured star(s): d c a