Mission simpossible

Your job, if you choose to accept it, is to help IBM ponder-this puzzlemaster check incoming solutions for his riddle http://domino.research.ibm.com/Comm/wwwr\_ponder.nsf/Challenges/July2011.html

**Input:**

14 new-line terminated lines containing 80 characters each.

**Output:**

One of the following

A. Students x1, x2 and x3 do not have any day with different deserts.

B. Solution OK.

If there is a counter-example (case A above), you should choose the first triplet, in

lexicographical order to examplify it.

**Sample input(1):**

BCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABC

AABBBCCCAAABBBCCCAAABBBCCCAAABBBCCCAAABBBCCCAAABBBCCCAAABBBCCCAAABBBCCCAAABBBCCC

AAAAAAAACCCCCCCCCBBBBBBBBBBBBBBBBBBAAAAAAAAACCCCCCCCCCCCCCCCCCBBBBBBBBBAAAAAAAAA

BCBCACABABCBCACABABCBCACABABCBCACABABCBCACABABCBCACABABCBCACABABCBCACABABCBCACAB

CBBACCBAACBBACCBAACBBACCBAACBBACCBAACBBACCBAACBBACCBAACBBACCBAACBBACCBAACBBACCBA

AAAAAAAABBBBBBBBBCCCCCCCCCAAAAAAAAABBBBBBBBBCCCCCCCCCAAAAAAAAABBBBBBBBBCCCCCCCCC

AACCCBBBBBBAAACCCCCCBBBAAAAAACCCBBBBBBAAACCCCCCBBBAAAAABCCCBBBBBBAAACCCCCCBBBAAA

BCABCABCABCABCABCABCABCABCBCABCABCABCABCABCABCABCABCACABCABCABCABCABCABCABCABCAB

CBACBACBACBACBACBACBACBACBBACBACBACBACBACBACBACBACBACCBACBACBACBACBACBACBACBACBA

AAAAAAAABBBBBBBBBCCCCCCCCCBBBBBBBBBCCCCCCCCCAAAAAAAAACCCCCCCCCAAAAAAAAABBBBBBBBB

BCBCACABBCACABABCCABABCBCABCACABABCCABABCBCAABCBCACABCABABCBCAABCBCACABBCACABABC

CBCBABACBACACBCBACBABACACBBACACBCBACBABACACBACBCBABACCBABACACBACBCBABACBACACBCBA

AAAAAAAAAAAAAAAAAAAAAAAAAABBBBBBBBBBBBBBBBBBBBBBBBBBBCCCCCCCCCCCCCCCCCCCCCCCCCCC

AABBBCCCBBBCCCAAACCCAAABBBAAABBBCCCBBBCCCAAACCCAAABBBAAABBBCCCBBBCCCAAACCCAAABBB

**Sample output(1):**

Students 20,23 and 56 do not have any day with different deserts.

**Sample input(2):**

ABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCABCAB

AAABBBCCCAAABBBCCCAAABBBCCCAAABBBCCCAAABBBCCCAAABBBCCCAAABBBCCCAAABBBCCCAAABBBCC

AAAAAAAAABBBBBBBBBCCCCCCCCCAAAAAAAAABBBBBBBBBCCCCCCCCCAAAAAAAAABBBBBBBBBCCCCCCCC

AAAAAAAAAAAAAAAAAAAAAAAAAAABBBBBBBBBBBBBBBBBBBBBBBBBBBCCCCCCCCCCCCCCCCCCCCCCCCCC

AAAAAAAAABBBBBBBBBCCCCCCCCCBBBBBBBBBCCCCCCCCCAAAAAAAAACCCCCCCCCAAAAAAAAABBBBBBBB

AAAAAAAAABBBBBBBBBCCCCCCCCCCCCCCCCCCAAAAAAAAABBBBBBBBBBBBBBBBBBCCCCCCCCCAAAAAAAA

ABCBCACABABCBCACABABCBCACABABCBCACABABCBCACABABCBCACABABCBCACABABCBCACABABCBCACA

ABCCABBCAABCCABBCAABCCABBCAABCCABBCAABCCABBCAABCCABBCAABCCABBCAABCCABBCAABCCABBC

AAABBBCCCAAABBBCCCAAABBBCCCBBBCCCAAABBBCCCAAABBBCCCAAACCCAAABBBCCCAAABBBCCCAAABB

AAABBBCCCAAABBBCCCAAABBBCCCCCCAAABBBCCCAAABBBCCCAAABBBBBBCCCAAABBBCCCAAABBBCCCAA

ABCABCABCBCABCABCACABCABCABABCABCABCBCABCABCACABCABCABABCABCABCBCABCABCACABCABCA

ABCABCABCCABCABCABBCABCABCAABCABCABCCABCABCABBCABCABCAABCABCABCCABCABCABBCABCABC

ABCBCACABBCACABABCCABABCBCABCACABABCCABABCBCAABCBCACABCABABCBCAABCBCACABBCACABAB

ABCBCACABCABABCBCABCACABABCCABABCBCABCACABABCABCBCACABBCACABABCABCBCACABCABABCBC

**Sample output(2):**

Solution OK.