Hi,

Everyone!

This excercise is about recursion. There are two problems and please hand in your work to zuolinchen@126.com in two weeks.

Assignment:

(1) Suppose the coming sequence into a stack is: 1，2，3，4. Write a function to print all the possibilities of output sequence.

(2) Input a positive integer n(n>=3)，write a function to print all the possibilities of combination of 1,1,2,2,3,3,......,n,n( 2n numbers altogether) that satisfies：

there is 1 integer between two “1”s

there are 2 integers between two “2”s

there are 3 integers between two “3”s

......

there are n integers between two “n”s

for example of 3，the two possible sequence are:231213 or 312132.

Pay attention, there may be 0 or many possible sequences, print them all。