

**The Second Baltic Olympiad in Informatics
Riga (Latvia), 18 – 20 April 1996
SOLUTION**

sequence

A NICE SEQUENCE (Latvia)

The main idea of the algorithm is a recursion. We try to add next element of the sequence to the existing sub-sequence. At each step it is worth to remember which elements had been included in this sub-sequence before, because if we had the sub-sequence $a_1, a_2, a_3, \dots, a_n$ in the past, there is no need to investigate the sub-sequences, where a_3, a_4 , or any other element of the previous sub-sequence comes directly after a_1 .

You can try to optimise the solution by cutting off the elements which are equivalent to their preceding elements (because such elements can be included in the same sub-sequence as the previous element).

This problem may contain more than one correct answer.