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The Virtual Learning Environment for Computer Programming

Every change

Segon Concurs de Programació de la FME (2005-05-05)

Write a program such that, for every given natural number *n*, prints all the different ways to obtain *n* cents with the euro system of coins (1 cent, 2 cents, 5 cents, 10 cents, 20 cents, and 50 cents).

Input

Input consists of a sequence of natural numbers $1 \le n \le 50$.

Output

For every n, print all the ways to obtain n cents, each one in a different line. The numbers of each line must appear in nonincreasing order. The solutions for every n must appear in reverse lexicographical order. Print an empty line after the output for each case.

Observation

A simple backtracking program that computes the result for every given *n* (even if repeated) is fast enough for this problem.

Sample input	Sample output
1 7	1
2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	2 1 1

Problem information

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