

PARTITIONS

A partition of a number N is a finite sequence of positive integers whose sum is N . For example, if N is 10, the following are four different partitions of N :

1, 2, 3, 4
2, 2, 2, 2
5, 5
10

PROBLEM:

You are to write a program that will prompt the user for a value of $N < 100$. Your program must then exhibit all partitions of N with the following properties:

- 1: The sequence of numbers in the partition is non-decreasing.
- 2: All the sequences are distinct.

(OVER)

[illegible]