CCC '98 S2 - Cross Number Puzzle

Time limit: 2.0s   **Memory limit:** 256M

Write a program to print:

1. The perfect numbers between $1\,000$ and $9\,999$ inclusive. A perfect number is a positive integer which is equal to the sum of its proper divisors. A proper divisor is any divisor less than the number itself. For example, 6 is a perfect number since $1 + 2 + 3 = 6$.
2. All integers between 100 and 999 inclusive which are equal to the sum of the cubes of their digits.

Input Specification

There is no input.

Output Specification

All the perfect numbers between $1\,000$ and $9\,999$ inclusive on one line, followed by all integers between 100 and 999 inclusive which are equal to the sum of the cubes of their digits on one line.