## Master Numbers

A master number is an integer that holds the following properties:

* Is **symmetric** (palindrome), e.g. 5, 77, 282, 14341, 9553559.
* Its **sum of digits is divisible by 7**, e.g. 77, 313, 464, 5225, 37173.
* Holds at least **one even digit**, e.g. 232, 707, 6886, 87578.

Write a program to **print all master numbers** in the range [1…**n**].

### Examples

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |
| 600 | 232  383  464  545 |  | 5000 | 232  383  464  545  626  696  707  858  1661  2552  3443  4334 |