## Problem 4 – Nine-Digit Magic Numbers

Petya often plays with numbers. Her recent game was to play with 9-digit numbers and calculate their sums of digits, as well as to split them into triples with special properties. Help her to calculate very special numbers called “***nine-digit magic numbers***”.

You are given two numbers: **diff** and **sum**. Using the **digits from 1 to 7** generate all 9-digit numbers in format **abcdefghi**, such that their sub-numbers **abc**, **def** and **ghi** have a difference **diff** (ghi-def = def-abc = diff), their sum of digits is **sum** and **abc < def** < **ghi**. Numbers holding these properties are also called “***nine-digit magic numbers***”.

Your task is to write a program to print these numbers in increasing order.

### Input

* The input data should be read from the console.
* The number **sum** stays at the first line.
* The number **diff** stays at the second line.

The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

The output should be printed on the console. Print all nine-digit magic numbers matching given difference **diff** and given sum of digits **sum**, in increasing order, each at a separate line. In case no nine-digit magic numbers exits, print “**No**”.

### Constraints

* The number **sum** will be a positive **integer** number in the range [0…100].
* The number **diff** will be a positive **integer** number in the range [0…1000].
* Allowed working time for your program: 0.25 seconds.
* Allowed memory: 16 MB.

### Examples

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| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 27  46 | 125171217  131177223  221267313 | 1+2+5+1+7+1+2+1+7 = 27; 171-125 = 46; 217-171 = 46  1+3+1+1+7+7+2+2+3 = 27; 177-131 = 46; 223-177 = 46  2+2+1+2+6+7+3+1+3 = 27; 267-221 = 46; 313-267 = 46 |

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| **Input** | **Output** | **Comments** |
| 24  103 | 121224327  211314417 | 1+2+1+2+2+4+3+2+7 = 24; 224-121 = 103; 327-224 = 103  2+1+1+3+1+4+4+1+7 = 24; 314-211 = 103; 417-314 = 103 |

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| **Input** | **Output** | **Comments** |
| 12  15 | No | No nine-digit magic numbers with sum=12 and diff=15 |