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The Counting Problem

Time Limit: 3000MS Memory Limit: 65536K

Total Submissions: 4739 Accepted: 2431

Description

Given two integers a and b, we write the numbers between a and b, inclusive, in a list. Your task is to calculate the number of occurrences of each digit. For example, if a = 1024 and b = 1032, the list will be

1024 1025 1026 1027 1028 1029 1030 1031 1032

there are ten 0's in the list, ten 1's, seven 2's, three 3's, and etc.

Input

The input consists of up to 500 lines. Each line contains two numbers a and b where 0 < a, b < 100000000. The input is terminated by a line '0 0', which is not considered as part of the input.

Output

For each pair of input, output a line containing ten numbers separated by single spaces. The first number is the number of occurrences of the digit 0, the second is the number of occurrences of the digit 1, etc.

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Sample Input

Sample Output

1 2 1 1 1 1 1 1 1 1 85 185 185 185 190 96 96 96 95 93 40 40 40 93 136 82 40 40 40 40 115 666 215 215 214 205 205 154 105 106 16 113 19 20 114 20 20 19 19 16 107 105 100 101 101 197 200 200 200 200 413 1133 503 503 503 502 502 417 402 412 196 512 186 104 87 93 97 97 142 196 398 1375 398 398 405 499 499 495 488 471 294 1256 296 296 296 296 287 286 286 247

Source

Shanghai 2004

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