My Shiny Digital Key

A house key, is essentially a physical encoding of a digital key, where different heights of teeth represent different digits. If one could read this digital equivalent (lets say from a to-scale photograph), then the physical key itself is not needed to create a copy. Lets imagine that we are not lock-picking our way into some place we shouldn't be at, but instead are running a legitimate locksmith business, maintaining a machine that cuts new copies of keys. We need to write some software that will scan the image of a key, and extract the heights of the teeth.

The input file digitalkey.txt will contain 2 sets of input. Each line is 5 characters long, and there are 7 lines per set. There is an additional whitespace line separating each set. Dot . will be the empty space character in the "image", number sign # is a part of the key. Each set of #s is continuous, but there could be a line of input with no #s at all.

The output contain 2 lines, each a 7 digit number, where each digit matches the height of the tooth on the corresponding line in the key. The top-most line of input is the left-most digit in the output. There are no spaces between the digits, and each digit is in the 0-5 range.

Note: Make sure to print any leading zeros, if such are present. Sample Input:

. . . . # # # # . # # # # # # . . . # # . . # # . . # # . . # # . . # # . . # # . . # # . . # # . . # # # . .

Sample Output:

0123451 1232332

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