

Morse code

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[English version](#)

Translate given text into the Morse code.

Input

There are indefinite number of lines. In each of them there are numbers '0'-'9', letters 'A'-'Z' and spaces.

Output

For each character print it in the Morse code.

Example

Input:

DO YOUR BEST
1 PLUS 1 EQUALS 2

Output:

.... --- .-.- -... -.-.-
.---- .--. -.--- -... -.-.---- .-.-. -.--- ..-. --..