

Problem L

Make Your Own Morse Code Palindrome

Time limit: 3 seconds

A *palindrome* is a word, number, phrase, or other sequence of characters which reads the same backward as forward, such as *madam* or *racecar* or *1881*. *Phrase palindromes* ignore capitalization, punctuation, and word boundaries. For example:

Madam I'm Adam.

Morse code is a method used in telecommunication to encode text characters as standardized sequences of two different signal durations, called dots and dashes, or dits and dahs. Morse code is named after Samuel Morse, one of the inventors of the telegraph. The International Morse code for letters and digits (the code does not distinguish between upper and lower case) is:

A	• —	M	— —	Y	— • — —
B	— • • •	N	— •	Z	— — • •
C	— • — •	O	— — —	0	— — — — —
D	— • •	P	• — — •	1	• — — — —
E	•	Q	— — • —	2	• • — — —
F	• • — •	R	• — •	3	• • • — —
G	— — •	S	• • •	4	• • • • —
H	• • • •	T	—	5	• • • • •
I	• •	U	• • —	6	— • • • •
J	• — — —	V	• • • —	7	— — • • •
K	— • —	W	• — —	8	— — — • •
L	• — • •	X	— • • —	9	— — — — •

A word, number or phrase is a *Morse Code Palindrome* if the morse code for the letters and digits in the word, number or phrase reads the same backwards or forwards (ignoring spaces between character codes).

