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Scoreboard

This contest has ended

Score: 75 / 1090 points
Rank: 17th out of 21

PROBLEMS

Problem B1: Dots and Dashes - Easy

10 points Accepted

Problem My Submissions

Dots and Dashes is a text encoding, similar to (but not the same as!) other formats used in electric telegraphy. Like those other formats, it uses sequences of dots "." and dashes "-" to encode characters, but unlike those other formats, it uses the following translation table:

A .-	B -...	C -.-.	D -..
E .	F ..-.	G --.	H ....
I ..	J .---	K -.-	L .-..
M --	N -.	O ---	P .--.
Q --.-	R .-.	S ...	T -
U ..-	V ...-	W .--	X -..-
Y -.--	Z --..	. .-.-.-	, --..--
! -.-.--	? ..--..	' .----.	" .-..-.
; -.-.-.	: ---...	(-.--.	) -.--.-
[-.--.	] -.--.-	{ -.--.	} -.--.-
0 -----	1 .----	2 ..---	3 ...--
4 ....-	5	6 -....	7 --...
8 ---..	9 ----.	+ .-.-.	- -....-
* -..-	/ -..-.	% -.-.-	

As an optional aid, a copy of the translation table can be found here, with each translation on its own line, i.e.

```
A .-
B -...
```

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PROBLEMS

Keymaster

A1: Easy	10 pt
A2: Medium	20 pt
A3: Hard	50 pt

Dots and Dashes

B1: Easy	10 pt
B2: Medium	15 pt
B3: Hard	40 pt

CI Pipelines

C1: Easy	5 pt
C2: Medium	15 pt
C3: Hard	50 pt

Data Centers

D1: Easy	10 pt
D2: Medium	20 pt
D3: Hard	65 pt

describing open source projects using the *dots and dashes* protocol. Your task is to **decode these descriptions**.

You've got a state of the art telegraph machine which can distinguish dots and dashes, as well as the gaps between characters and words. It outputs onto a ticker tape; your input contains N messages from it according to the following format:

- Dots are represented by the "." symbol.
- Dashes are represented by the "-" symbol.
- An individual character is represented by a contiguous sequence of dots and dashes (according to the translation table, above).
- Characters are separated by a single space.
- Words are separated by the "/" symbol, with a space on either side.

Constraints

$1 \leq N \leq 20$

Input

Your input file starts with a non-negative integer, N on the first line, followed by N lines, each containing the description of an open source project, encoded using *dots and dashes*.

Output

Your output should be a file containing N lines, with the ith line containing the decoded version of the ith encoded message in the input, **in all-caps**.

Explanation of Sample

The first message consists of two words (separated by a slash), and the encoding of "!" is appended to the end of the last word.

The second message is an example of a longer message encoded using dots and dashes.

Note how the expected output is in all-caps.

Sample Input	Sample Output

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