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Morse code P75697\_en

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Morse code is an old method for transmitting text messages, using only dots ('.') and dashes ('-'). The table to the right shows the corresponce between each letter and its code.

Note that Morse code is not prefix-free; therefore, something must be done to distinguish the start of every letter. In this problem, we prefix every code of length  $\ell$  with  $\ell$  dots, followed by one dash. For instance, the letter 'T' is codified ".--", the letter 'E' is codified ".--", and the letter 'A' is codified ".--". Hence, the codification of "TEA" is ".--.-". We also add the 'empty codification' "-" to denote a space.

Your task is simple: decode every given line of Morse code.

### Input

Input consists of several lines of Morse code.

## Output

Print every line once decoded.

### Sample input

•	•	- •	_	•	•	 . –	-	•	•	•	•	•	• -	-	•		•	•	•		 •	•	-	•	 	•		 -	•	 •	-		- •	•	•	•	. –	•	•	 •	•	-	•	•		
•			. –			 		•		•	-				-	• -	٠.			•	 	•			 		•	 -	-			-	. –	-					-	 	-			. –	• -	
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			_			 		<b>-</b> .		_				٠.					_		 			_ ,	 			 _					. –	-												

### Sample output

ABCDEFGHI JKLMNOPQR STUVWXYZ HI WORLD

#### **Problem information**

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A	. –
В	
C	
D	
E	
F	– .
G	
Н	
I	
J	
K	
L	
M	
N	
O	
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R	. – .
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Ϋ́	
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