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Morse code P75697_en

Quart Concurs de Programació de la UPC - Semifinal (2006-09-20)

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 ℓ with ℓ 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.	•	 •	 	 	٠	• -		-	 •	•	•	 •	•	•	 -		
		 _	 ٠.	 . –	-	 ٠.		 _				 -	-	 -	-		 	 			. –		 ٠.			 _	-		 ٠.	 . –	
	 -		 		-	 _							-	 -			 	 			. –	-	 			 _	-				
	 			 				 _	- .			 -		 _			 	 . –					 ٠.								

Sample output

ABCDEFGHI JKLMNOPQR STUVWXYZ HI WORLD

Problem information

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Generation: 2013-09-02 15:38:30

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D	
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