


Interval

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Timelimit: 1

You must make a program that read a float-point number and print a message saying in which of following intervals the number belongs: $[0,25]$ $(25,50]$, $(50,75]$, $(75,100]$. If the read number is less than zero or greather than 100, the program must print the message “Fora de intervalo” that means "Out of Interval".

The symbol ' $'$ ' represents greather than. For example:

$[0,25]$ indicates numbers between 0 and 25.0000, including both.

$(25,50]$ indicates numbers greather than 25 (25.00001) up to 50.0000000.

Input

The input file contains a floating-point number.

Output

The output must be a message like following example.

Input Sample	Output Sample
25.01	Intervalo (25,50]

25.00	Intervalo [0,25]
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100.00	Intervalo (75,100]
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-25.02	Fora de intervalo
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