



Array Fill III

Adapted by Neilor Tonin, URI Brazil

Timelimit: 1Bienvenido,
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Principiante

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Read a number X . Put this X at the first position of an array N [100]. In each subsequent position (1 up to 99) put half of the number inserted at the previous position, according to the example below. Print all the vector N .

Input

The input contains a double precision number with four decimal places.

Output

For each position of the array N print " $N[i] = Y$ ", where i is the array position and Y is the number stored in that position. Each number of $N[\dots]$ must be printed with 4 digits after the decimal point.

Sample Input	Sample Output
200.0000	$N[0] = 200.0000$ $N[1] = 100.0000$ $N[2] = 50.0000$ $N[3] = 25.0000$ $N[4] = 12.5000$...

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