



1178

Descripción
Pantalla Completa
Enviar
Ranking
Foro
uDebug

PRINCIPIANTE

URI Online Judge | 1178

Array Fill III

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Timelimit: 1

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**[...] must be printed with 4 digits after the decimal point.

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