

# 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 ...