Q2. Free-Falling Object (10 marks):

The vertical distance h (in unit of "m") that a free-falling object has fallen from a rest position over time t (in unit of "s") is given by

$$h = \frac{1}{2} gt^2$$

where g is the acceleration of gravity with a fixed value of 9.8 (in unit of "m/s^2".)

Write a programme to

Input a non-negative real number, h, as the value of the falling distance of a free-falling object, where $0 \leq h \leq 1000$.

Output the value of the falling time, t, of this object.

Note: The output value must be rounded to two decimal places, and both decimal places must be displayed even if it is 0.

试题 2. 自由落体 (10 分):

一个自由落体从静止垂直落下，过了时间 t（单位为"s"）之后，它掉落的距离 h（单位为"m"）和时间的关系是

$$h = \frac{1}{2} gt^2$$

其中 g 是重力加速度，其值可设定为 9.8 （单位为"m/s^2"）。

试写一程式以

输入一个非负的实数 h 做为自由落体从静止垂直掉落的距离的值，并已知 $0 \leq h \leq 1000$。

输出此自由落体掉落的时间 t 的值。

注意：此输出值必须近似至小数点后二位数，即使为 0，小数点后二位数也必须显示。

Example (例子)

Input (输入)	Output (输出)
1	0.45
12.34	1.59
456.789	9.66