

You are given a class *Solution* and an inner class *Inner.Private*. The main method of class *Solution* takes an integer *num* as input. The *powerof2* in class *Inner.Private* checks whether a number is a power of **2**. You have to call the method *powerof2* of the class *Inner.Private* from the *main* method of the class *Solution*.

Constraints

$$1 \leq num \leq 2^{30}$$

Sample Input

8

Sample Output

8 is power of 2

An instance of class: Solution.Inner.Private has been created