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

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

Sample Input

```
8
```

Sample Output

```
8 is power of 2
An instance of class: Solution.Inner.Private has been created
```