**Can You Access?**

**import** java.io.\*;

**import** java.lang.reflect.\*;

**import** java.util.\*;

**import** java.util.regex.\*;

**import** java.security.\*;

**public** **class** Solution {

**public** **static** **void** main(String[] args) **throws** Exception {

        DoNotTerminate.forbidExit();

**try**{

            BufferedReader br = **new** BufferedReader(**new** InputStreamReader(System.in));

**int** num = Integer.parseInt(br.readLine().trim());

            Object o;*// Must be used to hold the reference of the instance of the class Solution.Inner.Private*

             o = **new** Object();

             Solution.Inner instance = **new** Solution.Inner();

             Inner.Private inner = instance.**new** Private();

             o = (Object) inner;

              System.out.println(num + " is " + inner.powerof2(num)) ;

        System.out.println("An instance of class: " + o.getClass().getCanonicalName() + " has been created");

        }*//end of try*

**catch** (DoNotTerminate.ExitTrappedException e) {

            System.out.println("Unsuccessful Termination!!");

        }

    }*//end of main*

**static** **class** Inner{

**private** **class** Private{

**private** String powerof2(**int** num){

**return** ((num&num-1)==0)?"power of 2":"not a power of 2";

            }

        }

    }*//end of Inner*

}*//end of Solution*

**class** DoNotTerminate { *//This class prevents exit(0)*

**public** **static** **class** ExitTrappedException **extends** SecurityException {

**private** **static** **final** **long** serialVersionUID = 1L;

    }

**public** **static** **void** forbidExit() {

**final** SecurityManager securityManager = **new** SecurityManager() {

            @Override

**public** **void** checkPermission(Permission permission) {

**if** (permission.getName().contains("exitVM")) {

**throw** **new** ExitTrappedException();

                }

            }

        };

        System.setSecurityManager(securityManager);

    }

}