import math

# A utility function that will return true

# if a number is a perfect square else, this will return false

def isPerfectSquare(num):

# finding the sqaure root of a number

s=int(math.sqrt(num))

return s\*s==num

def isFibonacciNumber(n):

# Return true if the number is fibonacci otherwise return false

return isPerfectSquare(5\*n\*n+4) or isPerfectSquare(5\*n\*n-4)

n=int(input('enter the number you want to check:'))

if(isFibonacciNumber(n)==True):

print('Given number is a fibonnaci number')

else:

print(n,'is not a fibonnaci number')