

Declare num,copyNum,reverseNum,remainder,sum,base,exponent,cnt,power

Print "Enter a number"

Input num

copyNum = num

reverseNum = 0

sum = 0

Repeat Until (num > 0)

    remainder = num % 10

    reverseNum = reverseNum \* 10 + remainder

    num = num / 10

Repeat Until (reverseNum > 0)

    exponent = 1

    base = reverseNum % 10

    reverseNum = reverseNum / 10

    cnt = 1

    power = 1

Repeat Until (cnt <= exponent)

    power = power \* base

    cnt = cnt + 1

sum = sum + power

exponent = exponent + 1

If (sum = copyNum)

    Print "Rocking Number"

Otherwise

Print "Not a Rocking Number"