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#Palindrome identifier

n=int(input('n: '))

rev=0

check=n

while n > 0:

rev=rev\*10+n%10

print(n%10)

n=n//10

if check==rev:

print('The number is a palindrome.')

else:

print('Not a palindrome')

#LCM

gcd=1

n1=int(input('number1: '))

n2=int(input('number2: '))

fac=2

while n1 >= fac and n2 >= fac:

while n1%fac==0 and n2%fac==0:

gcd=gcd\*fac

n1//=fac

n2//=fac

fac+=1

lcm=gcd\*n1\*n2

print(lcm)

#extract the nth digit of a given Z+ VERSION 1

num= int(input('Enter a number: '))

n=int(input('nth place: '))

display=0

j=1

while j <= n:

display= num%10

num//=10

j+=1

print(display)

#extract the nth digit of a given Z+

VERSION 2

num= int(input('Enter a number: '))

rev=0

while num > 0:

rev=rev\*10 + num%10

num=num//10

n=int(input('nth place: '))

display=0

j=1

while j <= n:

display= rev%10

rev//=10

j+=1

print(display)