def is\_divisible(x, y): # funcytion from section 6.4

if x % y == 0:

return true

else :

return false

def is\_power (a, b):

if is\_divisible (a, b ) == True:

# This call the is divisible function to check, if a is divisible by b.

if a == b :

# Same numbers are the power of themselves unless I'm mistakened (3^1 == 3).

return True

elif b== 1 :

# codes moves onto the next condition if b does not equal to 1.

if a == 1 :

# This condittion checks that only a power of 1 is 1 itself

return True

else:

return False

elif: a / b % b == 0:

# This condition checks if a/b is a power of b

return True

else:

return False

print(" is\_power ( 10, 2) returns: ",

is\_power (10, 2))

print("is\_power (27, 3) returns: ",

is power ( 27, 3) )

print("is\_power(1, 1 ) returns: ",

is\_power(1, 1))

print("is\_power(10, 1) returns: ",

is\_power(10 , 1 ))

print("is\_power(3, 3) returns: ",

is\_power (3, 3))

# I'm sure theres a cleaner and more concice way tp write this but I am out of time