Problem 9) Recursive function. Provide code and test sufficiently.

Create 2 types of Power functions (Hint for $O(\ln n)$ split into even and odd conditions)

$$y=x^n$$
, $(y(n)=O(n) \cap y(n)=O(\ln n))$ where $y, x \in R, n \in N_0$

$$(y(n) = O(n) intersects with y(n) = O(lnn))$$

where y, XER, n ∈ No

15 the intersection of these two sets is the set containing elements that are common in both

LD y is an element of XER AND n E No X ory?

For all values of n at and to the right of No, the value of y(n) lies between Big o and I bower bound

