Write pseudocode + give dec. Fins For: 1. Binary Search (sorted array)

2. Bublice Sort

3. Linear Search (unsorted array)

4. Toners of Henoi

[in groups.]

Defining a decrementing function.

D: S N codomain: must be a wellordered set. I domain: the state space usually, the natural #s.

If needed, define

Si:= State space at start of itn iteration through the loop.

S(a,b):= State space immediately after for call of parameters a and b.

Define the fen!

 $D(S:) := \boxed{????}$