Infinite Sets Principle 2 sets have sque size if there is a pairing (bijection, or 1-1 ento napping) Letoner the set using all of both exactly once. 15/= |T|
rotthe whole set

A proper subset 5 CT is smiller than T $\begin{array}{c} SST \\ ST \\ ST \end{array} \longrightarrow |S| \sim |T| \\ ST \end{array}$

Which 6 bigger? IN us. evens?
{0,1,4,--}

{0 1 1 1 3 4 --- Same Size.

{0 2 4 6 8 --- Same Size.

we say ISI & ITI of there is a pairing between

S and a subset of T.

{0,2,7,6-3| & IN| 0,123,456...

Thun if $|S| \leq |T|$ and $|T| \leq |S|$ Then |S| = |T|. Schroeder-Bernstein

Neon |S| = |T|. Reorem

(if S can be paired as a subsect of T and T in T can be filly passed off)

IN = 12/

. 50