a connection between There is

- Turing machines (3spaces) o(1) state space / state data structure o (1) linear/list space w/ 00 Nodes o (1) binary enombata struct w/ each Nede 07/

Dara structure transformation

- o turing machines can perform any calc
- a input and out put data structures are on the tape
- o the 3 spaces (Statemachine, tape and state at position) are evaluated together to transferm data
- · Comptex transferms from complex Structure to linear structure happen when providing input to tape and for receiving output
 - o the state table in a turing machine must encapsulate
 - 1) transform from linear tape to meaning full structure on input
 - Z) trunsform that alters the
 - 3) transform that converts meaningfull Structure back to I mear array

There is a connection between (earl)

- traversing data Structures + addressability
ofhe turing machine operates by
traversing data structure I to preduce
data structure Z

Compression of the transform nature of turing maeting consisting of 1) input bata

2) state machine capturing complexible structure in its definition

Seems very similar to compression in terms of

Droduce a data structure from minimum set of variable data

2) Storing only the variable date