

By induction <sup>want to prove:</sup>  $a_0 \dots a_{2^n n} \downarrow_{a < w < c} a_{< 2^n n}$ . (\*)

For  $n=0$  ✓.

z/-

For  $n+1$  we have  $a_{< 2^{n+1}} \downarrow_{a < w < c} a_{> 2^{n+1}}$ .

(\*) <sup>+ trans</sup>  $\Rightarrow a_{> 2^n} \dots a_{2^n} \downarrow_{c < a < w < a_{2^{n+1}}} a_{> 2^{n+1}}$