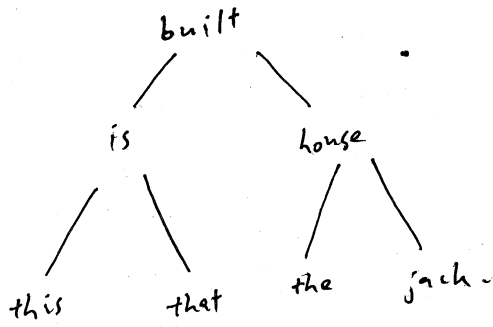


①

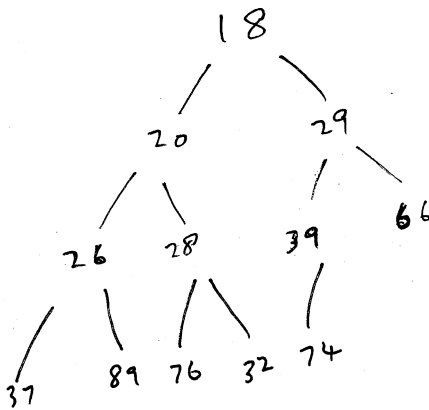


②

0	built
1	is
2	house
3	this
4	that
5	the
6	jack

③

$$\begin{aligned} \text{left}(i) &= 2 \cdot i + 1 \\ \text{right}(i) &= 2 \cdot i + 2 \\ \text{parent}(i) &= (i-1)/2 \end{aligned}$$



0	18
1	20
2	29
3	26
4	28
5	39
6	66
7	37
8	89
9	76
10	32
11	74

④

