

计算左子树的规模

$$\begin{aligned} H &= \log_2(N + 1 - X) \\ \rightarrow H &= \lceil \log_2(N + 1) \rceil \\ L &= 2^{H-1} - 1 + X \\ X &= \min\{X, 2H - 1\} \end{aligned}$$