

$$\begin{aligned}
 T(\text{all calls to Find}) = \\
 \#(i \rightarrow j) = \\
 \#(i \rightarrow j: j \text{ is a root}) + \\
 \#(i \rightarrow j: \log^*(\text{rank}[i]) < \log^*(\text{rank}[j])) + \\
 \#(i \rightarrow j: \log^*(\text{rank}[i]) = \log^*(\text{rank}[j]))
 \end{aligned}$$

