

$T(\text{all calls to Find}) =$

$\#(i \rightarrow j) =$

$\#(i \rightarrow j: j \text{ is a root}) +$

$\#(i \rightarrow j: \log^*(\text{rank}[i]) < \log^*(\text{rank}[j])) +$

$\#(i \rightarrow j: \log^*(\text{rank}[i]) = \log^*(\text{rank}[j]))$