Stern-Brocot tree

$\boxed{\dfrac{0}{1}}$ (far left) $\qquad$ $\boxed{\dfrac{1}{0}}$ (far right)

Root: $\boxed{\dfrac{1}{1}}$

Level 1: L → $\boxed{\dfrac{1}{2}}$ $\qquad$ R → $\boxed{\dfrac{2}{1}}$

Level 2: $\boxed{\dfrac{1}{3}}$ (L), $\boxed{\dfrac{2}{3}}$ (R), $\boxed{\dfrac{3}{2}}$ (L), $\boxed{\dfrac{3}{1}}$ (R)

Level 3: $\boxed{\dfrac{1}{4}}$ (L), $\boxed{\dfrac{2}{5}}$ (R), $\boxed{\dfrac{3}{5}}$ (L), $\boxed{\dfrac{3}{4}}$ (R), $\boxed{\dfrac{4}{3}}$ (L), $\boxed{\dfrac{5}{3}}$ (R), $\boxed{\dfrac{5}{2}}$ (L), $\boxed{\dfrac{4}{1}}$ (R)

Level 4: $\boxed{\dfrac{1}{5}}$ (L), $\boxed{\dfrac{2}{7}}$ (R), $\boxed{\dfrac{3}{8}}$ (L), $\boxed{\dfrac{3}{7}}$ (R), $\boxed{\dfrac{4}{7}}$ (L), $\boxed{\dfrac{5}{8}}$ (R), $\boxed{\dfrac{5}{7}}$ (L), $\boxed{\dfrac{4}{5}}$ (R), $\boxed{\dfrac{5}{4}}$ (L), $\boxed{\dfrac{7}{5}}$ (R), $\boxed{\dfrac{8}{5}}$ (L), $\boxed{\dfrac{7}{4}}$ (R), $\boxed{\dfrac{7}{3}}$ (L), $\boxed{\dfrac{8}{3}}$ (R), $\boxed{\dfrac{7}{2}}$ (L), $\boxed{\dfrac{5}{1}}$ (R)

Level 5: $\boxed{\dfrac{1}{6}}$, $\boxed{\dfrac{2}{9}}$, $\boxed{\dfrac{3}{11}}$, $\boxed{\dfrac{3}{10}}$, $\boxed{\dfrac{4}{11}}$, $\boxed{\dfrac{5}{13}}$, $\boxed{\dfrac{5}{12}}$, $\boxed{\dfrac{4}{9}}$, $\boxed{\dfrac{5}{9}}$, $\boxed{\dfrac{7}{12}}$, $\boxed{\dfrac{8}{13}}$, $\boxed{\dfrac{7}{11}}$, $\boxed{\dfrac{7}{10}}$, $\boxed{\dfrac{8}{11}}$, $\boxed{\dfrac{7}{9}}$, $\boxed{\dfrac{5}{6}}$, $\boxed{\dfrac{6}{5}}$, $\boxed{\dfrac{9}{7}}$, $\boxed{\dfrac{11}{8}}$, $\boxed{\dfrac{10}{7}}$, $\boxed{\dfrac{11}{7}}$, $\boxed{\dfrac{13}{8}}$, $\boxed{\dfrac{12}{7}}$, $\boxed{\dfrac{9}{5}}$, $\boxed{\dfrac{9}{4}}$, $\boxed{\dfrac{12}{5}}$, $\boxed{\dfrac{13}{5}}$, $\boxed{\dfrac{11}{4}}$, $\boxed{\dfrac{10}{3}}$, $\boxed{\dfrac{11}{3}}$, $\boxed{\dfrac{9}{2}}$, $\boxed{\dfrac{6}{1}}$

Level 6 (leaves): $\dfrac{1}{7}$, $\dfrac{2}{11}$, $\dfrac{3}{14}$, $\dfrac{3}{13}$, $\dfrac{4}{15}$, $\dfrac{5}{18}$, $\dfrac{5}{17}$, $\dfrac{4}{13}$, $\dfrac{5}{14}$, $\dfrac{7}{19}$, $\dfrac{8}{21}$, $\dfrac{7}{18}$, $\dfrac{7}{17}$, $\dfrac{8}{19}$, $\dfrac{7}{16}$, $\dfrac{5}{11}$, $\dfrac{6}{11}$, $\dfrac{9}{16}$, $\dfrac{11}{19}$, $\dfrac{10}{17}$, $\dfrac{11}{18}$, $\dfrac{13}{21}$, $\dfrac{12}{19}$, $\dfrac{9}{14}$, $\dfrac{9}{13}$, $\dfrac{12}{17}$, $\dfrac{13}{18}$, $\dfrac{11}{15}$, $\dfrac{10}{13}$, $\dfrac{11}{14}$, $\dfrac{9}{11}$, $\dfrac{6}{7}$, $\dfrac{7}{6}$, $\dfrac{11}{9}$, $\dfrac{14}{11}$, $\dfrac{13}{10}$, $\dfrac{15}{11}$, $\dfrac{18}{13}$, $\dfrac{17}{12}$, $\dfrac{13}{9}$, $\dfrac{14}{9}$, $\dfrac{19}{12}$, $\dfrac{21}{13}$, $\dfrac{18}{11}$, $\dfrac{17}{10}$, $\dfrac{19}{11}$, $\dfrac{16}{9}$, $\dfrac{11}{6}$, $\dfrac{11}{5}$, $\dfrac{16}{7}$, $\dfrac{19}{8}$, $\dfrac{17}{7}$, $\dfrac{18}{7}$, $\dfrac{21}{8}$, $\dfrac{19}{7}$, $\dfrac{14}{5}$, $\dfrac{13}{4}$, $\dfrac{17}{5}$, $\dfrac{18}{5}$, $\dfrac{15}{4}$, $\dfrac{13}{3}$, $\dfrac{14}{3}$, $\dfrac{11}{2}$, $\dfrac{7}{1}$