Forky definition:

In the pictures, Branch is shown as a branching point with a "B", and Tip is shown as a leaf with a "T" and an element. For example

stands for Branch (Tip 2) (Branch (Tip 7) (Tip 8)).

 $ta \gg = k$ begins with the tree shape of ta, but then each of its $Tip \ a$ is replaced by the result of $k \ a$. Example:

	1
ta	В
	$\begin{array}{ccc} & & \\ T & 2 & \end{array}$
	/ /
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	1 / 1 8
k 2	T 1
k 7	В
	T 3 T 4
k 8	Т 4
$ta \gg = k$	В
	T 1 B
	В Т 4
	T 3 T 4

You can also think of Forky as modeling non-deterministic programs that, at each moment, can either split into two universes or finish with an answer; moreover, not only the multiple answers are recorded, but also the splitting histories of getting those answers are recorded as a tree. Then $ta \gg = k$ runs ta, passes each answer to k, and records all splitting histories and final answers.