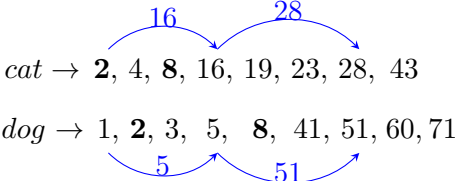
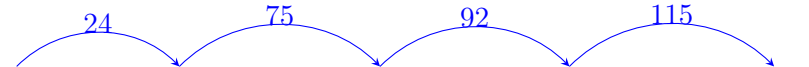
$$
\begin{aligned}
\textit{cat} &\rightarrow \mathbf{2}, 4, \mathbf{8}, 16, 19, 23, 28, 43 \\
\textit{dog} &\rightarrow 1, \mathbf{2}, 3, 5, \mathbf{8}, 41, 51, 60, 71 \\
\mathbf{merged} &\rightarrow 2, 8
\end{aligned}
$$


16
28
cat → 2, 4, 8, 16, 19, 23, 28, 43
dog → 1, 2, 3, 5, 8, 41, 51, 60, 71
5
51

8
21
151
dog → 2, 3, 8, 11, 17, 21, 31, 140, 151

$$
\begin{aligned}
\textit{the} &\rightarrow 1, 2, 3, 4, 8, 11, 17, 21, 31, 41, 64, 128, 140, 151 \\
\textit{cat} &\rightarrow 1, 2, 4, 41, 64, 128, 151 \\
\textit{dog} &\rightarrow 1, 2, 3, 8, 11, 17, 21, 31, 140, 151 \\
\textit{jumped} &\rightarrow 2, 151 \\
\text{“}\textit{the cat}\text{”} &\rightarrow 1, 2, 4, 41, 64, 128, 151 \\
\text{“}\textit{cat dog}\text{”} &\rightarrow 1, 2, 151 \\
\text{“}\textit{dog jumped}\text{”} &\rightarrow 2, 151
\end{aligned}
$$



3, 5, 89, 95, 97, 99, 100, 101