Exercise 4.4

- For $n = 2$ and $1 \leq T \leq 30$, perform a step-by-step simulation of the algorithm in Figure 4.7. Create a table that shows, for each point in time at which $T = 2 * k$ tokens have been processed ($1 \leq k \leq 15$), which of the four indexes $I0, \ldots, I3$ are in use.

	I0	I1	I2	I3
2 tokens	1	?	?	?
4 tokens				
6 tokens				
…				

Exercise 4.11

- Apply MapReduce to the problem of counting how often each term occurs in a set of files.
- Specify map and reduce operations for this task. Write down an example along the lines of Figure 4.6.
- Use the same example of files' collection as in 4.6:
  - *d*2 : C died.
  - *d*1 : C came, C c'ed.