1.1.1
Exercise solved in detail

Exercise

Answer the following questions taking $\Sigma = \{0, 1\}$.

1. What is Σ^0?
2. How many elements are there in Σ^3?
3. How many elements are there in Σ^n?
4. What is the length of the longest string in Σ?
5. Does Σ^* have strings of infinite length?
6. If $|u| = 2$ and $|v| = 3$ then what is $|u \bullet v|$?
7. Let u be an arbitrary string in Σ^*. What is ϵu? What is $u \epsilon$?
8. Is $uv = vu$ for every $u, v \in \Sigma^*$?
9. Is $(uv)w = u(vw)$ for every $u, v, w \in \Sigma^*$?

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THE END

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(for now)