

T1 Autômatos

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Abstract

This article aims to show the specificities of the imperative paradigm. As well as making a history background of the reason why the paradigm is widely used at classic programming languages, making them behave like they do.

1 Questão 1

1.1 Letra a

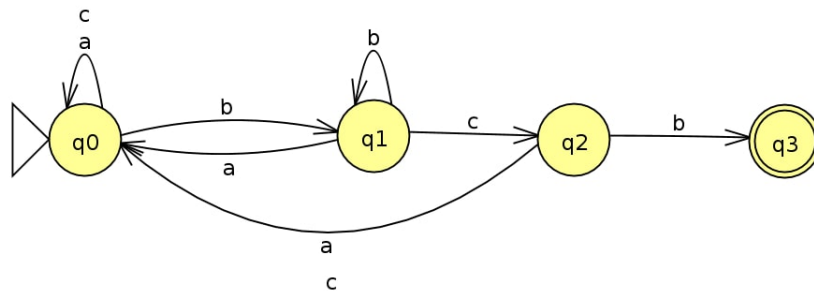


Figure 1: Esse é um autômato determinístico

| Input | Result |
|--------|--------|
| abcb | Accept |
| bcbb | Reject |
| cbcb | Accept |
| bcbaaa | Reject |
| aaaaa | Reject |

1.2 Letra b

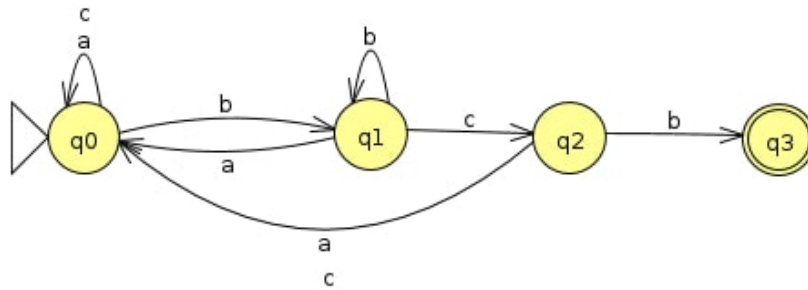


Figure 2: Esse é um autômato determinístico

| Input | Result |
|-------|--------|
| b | Reject |
| a | Reject |
| c | Reject |
| bb | Reject |
| aba | Reject |
| ac | Reject |
| ab | Reject |
| bc | Reject |
| ba | Reject |

1.3 Letra c

| Input | Result |
|------------|--------|
| aa | Accept |
| bb | Reject |
| cc | Accept |
| c | Accept |
| a | Accept |
| b | Accept |
| aacbcbcbba | Accept |
| abcabcbb | Reject |

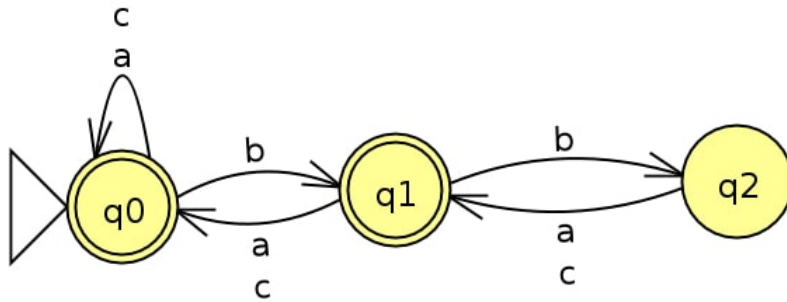


Figure 3: Esse é um autômato determinístico

1.4 Letra d

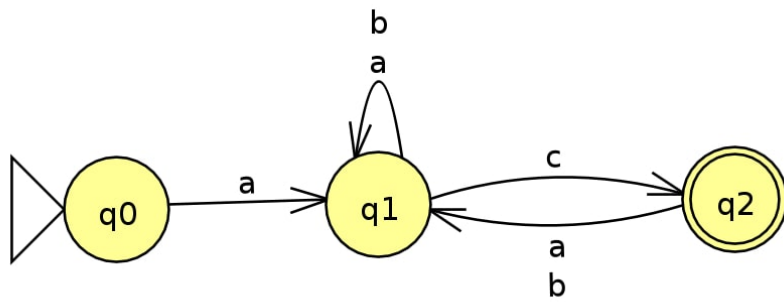


Figure 4: Esse é um autômato determinístico

| Input | Result |
|-------|--------|
| a | Reject |
| b | Reject |
| c | Reject |
| ac | Accept |
| abcbc | Accept |
| acac | Accept |
| abcbb | Reject |