Az informatika számítástudományi alapjai gyakorlat

2. feladatsor

Relda A a lue'ce': V= ga, 65

hillyen yelvet for I et?

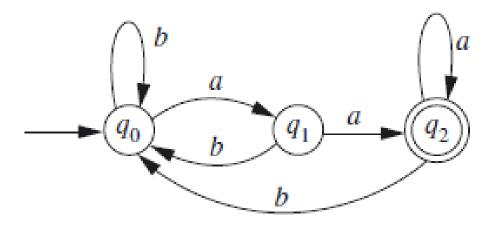
Azaz:

Milyen szavak viszik a kezdőállapotból a végállapotba?

(Írjuk fel a nyelvet szóhalmazok és múlt órai műveletek segítségével)

Rèlda

Ar aile'ce': V= ga, 6}



hillyen yelwed for I el?

Azaz:

Milyen szavak viszik a kezdőállapotból a végállapotba?

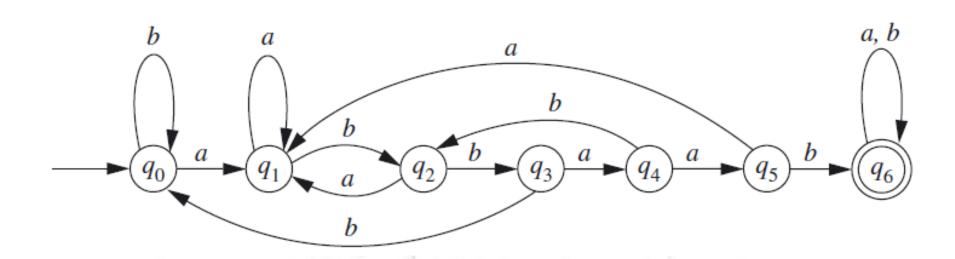
(Írjuk fel a nyelvet szóhalmazok és múlt órai műveletek segítségével)

Konstruáljunk szöveg-minta kereső automatát

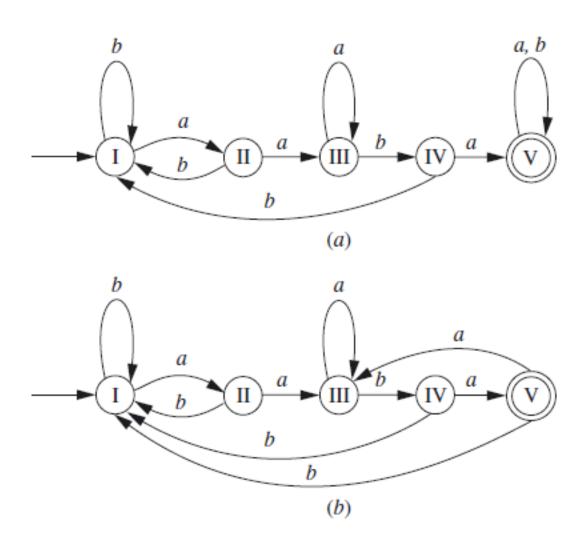
Az elfogadott szavakban szerepeljen az abbaab résszó

- pl. aaaababababababababababaaaaab elfogadott szó legyen

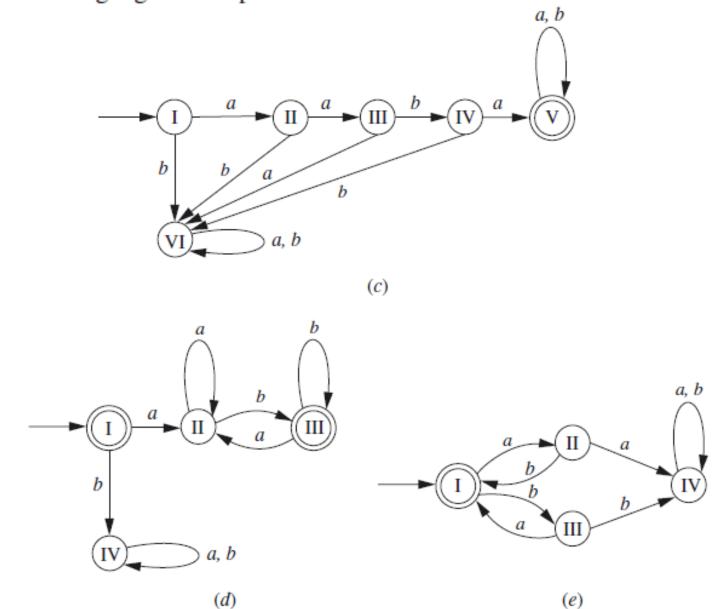
Aras



2.2. For each of the FAs pictured in Fig. 2.43, give a simple verbal description of the language it accepts.



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- 2.1. In each part below, draw an FA accepting the indicated language over {a, b}.
 - a. The language of all strings containing exactly two a's.
 - b. The language of all strings containing at least two a's.
 - c. The language of all strings that do not end with ab.
 - d. The language of all strings that begin or end with aa or bb.
 - e. The language of all strings not containing the substring aa.
 - f. The language of all strings in which the number of a's is even.
 - g. The language of all strings in which both the number of a's and the number of b's are even.
 - h. The language of all strings containing no more than one occurrence of the string aa. (The string aaa contains two occurrences of aa.)
 - i. The language of all strings in which every a (if there are any) is followed immediately by bb.
 - j. The language of all strings containing both bb and aba as substrings.
 - k. The language of all strings containing both aba and bab as substrings.

csak ha sok idő van Nyelver

Adett åbe'ce pletti somar ne'ges neen epper ne'geller hal maxa - yelr.

· V*: en össer V ailie ce feletti no horlunaza

Pl.: ξ0,13* = {2,0,1,00,01,10,11,000,...}

· V+: ar i'sser nem iver né balhara

* Luzer : L = V* (Vaihe'ce belett ugetr)
Vbetiihel reprett navar balmara

Kongatilna cio

· u = a, az .. an | v = bn .. bm , u, v ∈ V " he't no

some mandered proposed and the sound

A ret no jusiv montal contratena ciójai a wv = anaz... an bibz... ben not estigni ?.

15 N= gais abba baba = abbababa

illetre baba={baj.ba=(ba)²
illetre

7. u = u.x = u herwile u nir

2.12. For each of the following languages, draw an FA accepting it.

```
a. \{a, b\}^*\{a\}
```

b.
$$\{bb, ba\}^*$$

c.
$$\{a,b\}^*\{b,aa\}\{a,b\}^*$$

d.
$$\{bbb, baa\}^*\{a\}$$

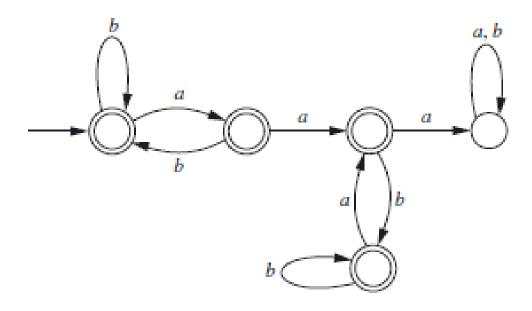
e.
$$\{a\} \cup \{b\}\{a\}^* \cup \{a\}\{b\}^*\{a\}$$

$$f. \{a,b\}^*\{ab,bba\}$$

h.
$$\{aba, aa\}^*\{ba\}^*$$

Két megoldás:

2.1(h).



2.12(h).

