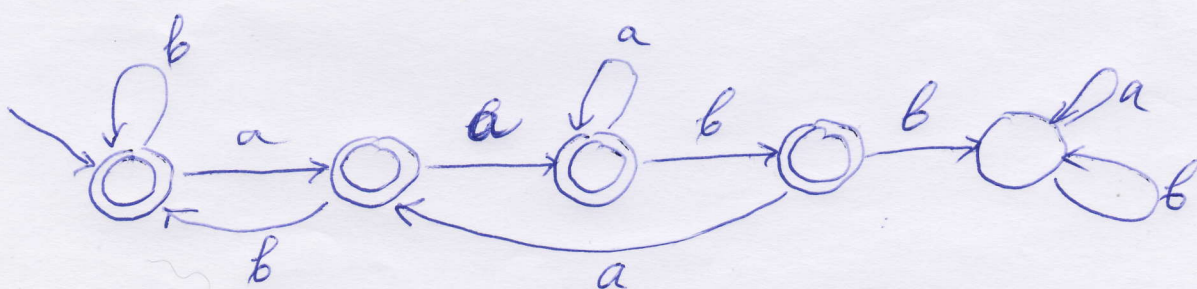
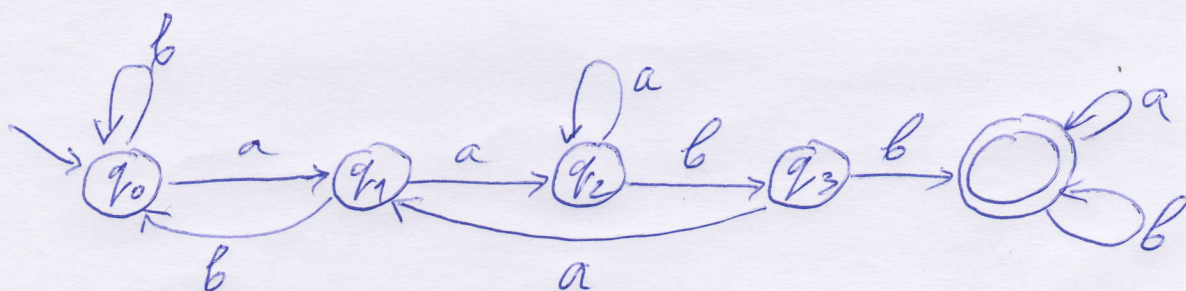
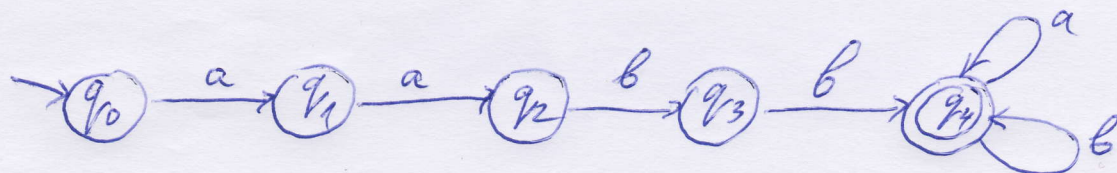


Да се построи ДКА, който разпознава всички низове над азбуката  $V = \{a, b\}$ , които не съдържат като подниз  $aabv$ .

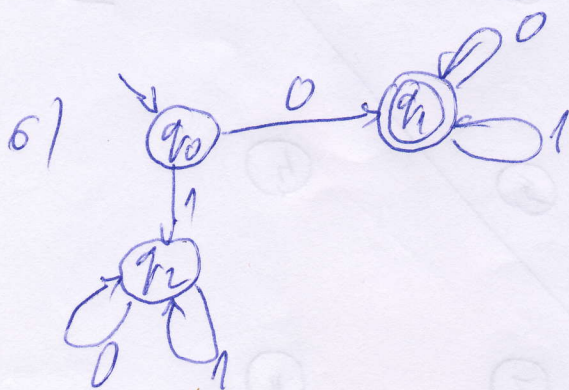
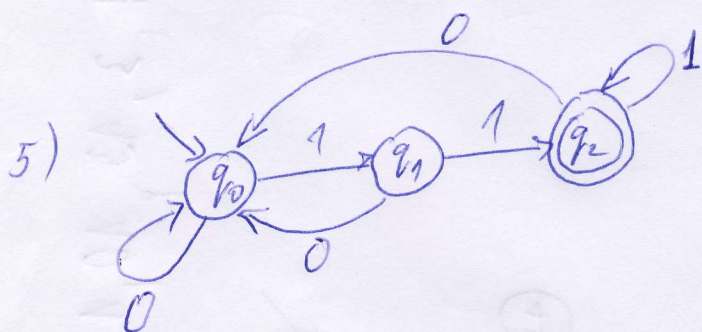
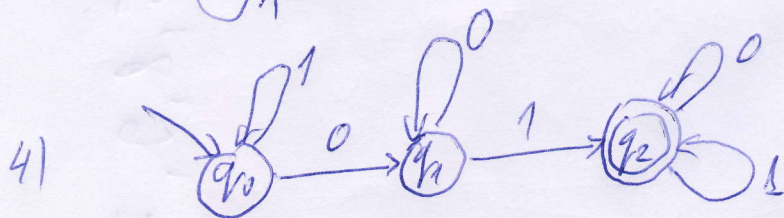
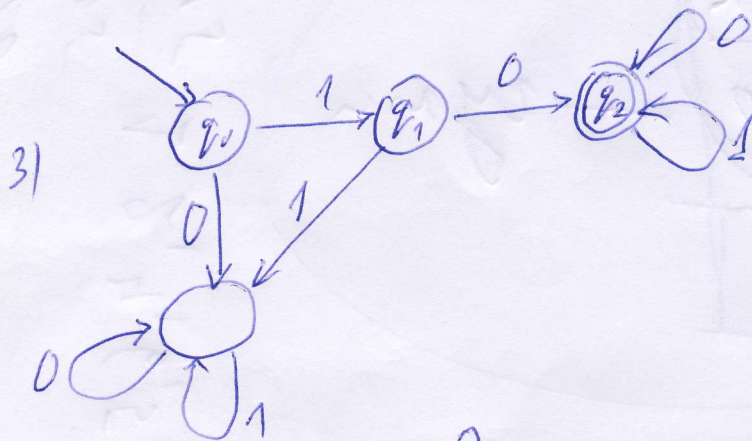
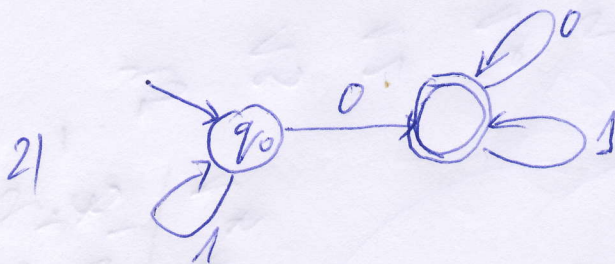
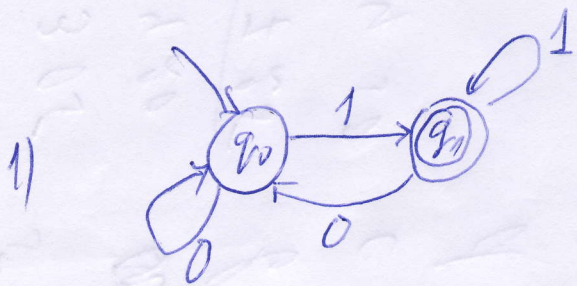
Да построим отначало автомата, който разпознава низовете, съдържащи  $aabv$



$$V = \{0, 1\}$$

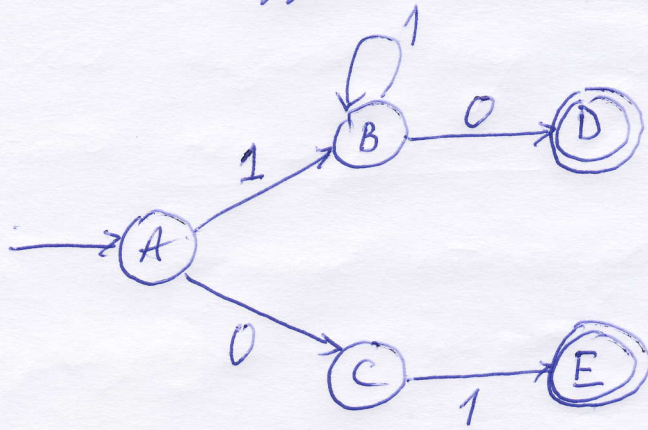
- 1) Завершающие с 1
- 2) Стартующие 0
- 3) Записывающие с 10
- 4) Стартующие 01
- 5) Завершающие с 11
- 6) Записывающие с 0







Кои са думите, разпознавани от автомата?



10 - да

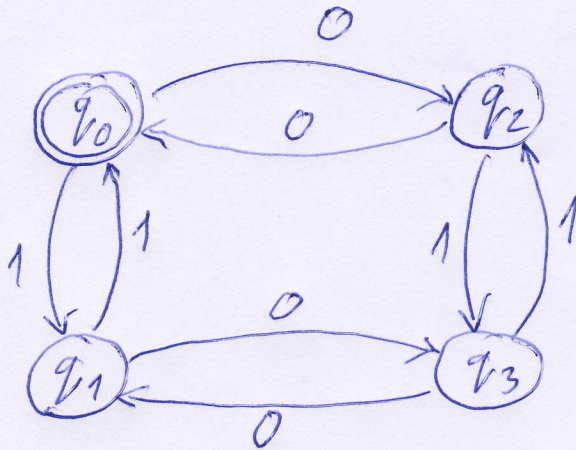
111...10 - да  
 A — B — D

$$L = \{01 \cup 1^+0\}$$

001, 010, 011, 1101, 1100  $\notin L$



Кои са думите, разпознавани от автомата?



$$1) L = \{a^n b \mid n \geq 0\}$$

$$2) L = \{a^n b \mid n \geq 1\}$$

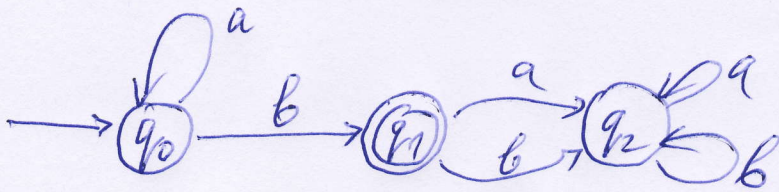
$$3) L = \{a^m b^n \mid m, n \geq 1\}$$

$$4) L = \{a^k b^m c^n \mid k, m, n \geq 0\}$$

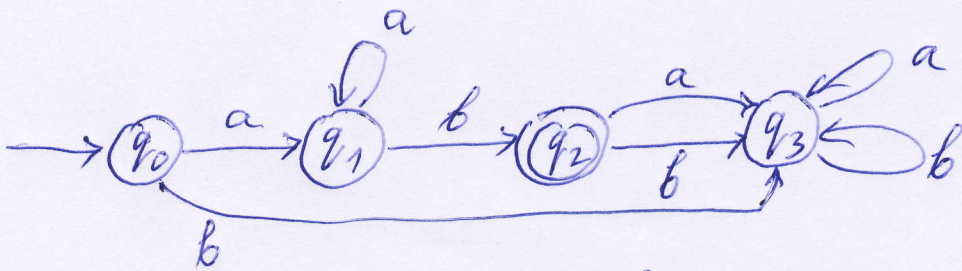
$$5) L = \{(abc)^n \mid n \geq 0\}$$



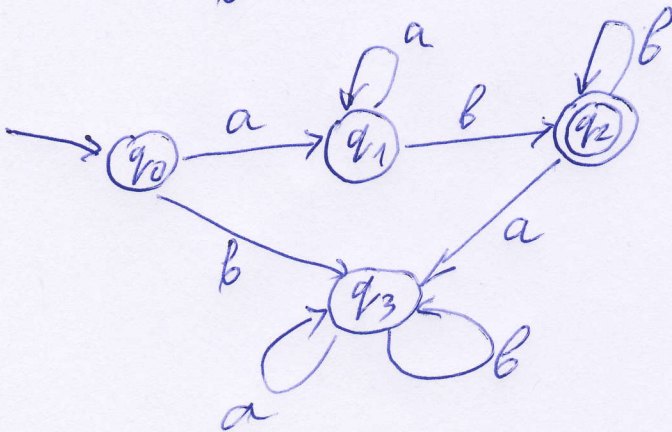
1)



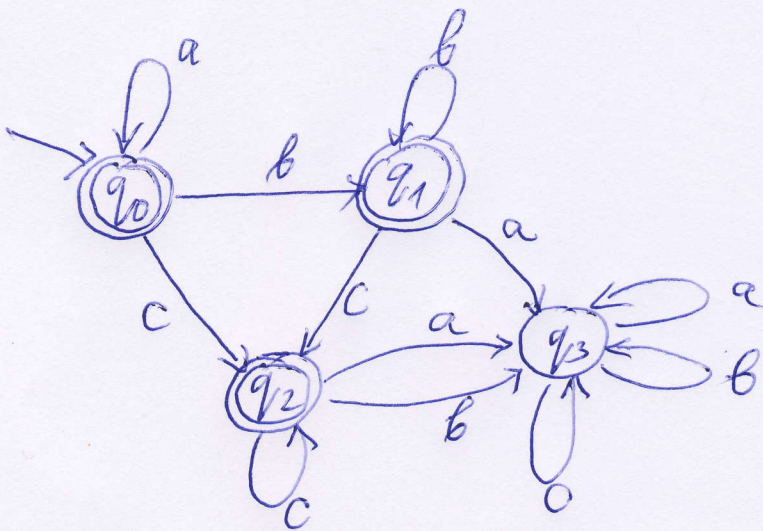
2)



3)



4)



5)

