Formleg mál og reiknanleiki

Pétur

September 24, 2018
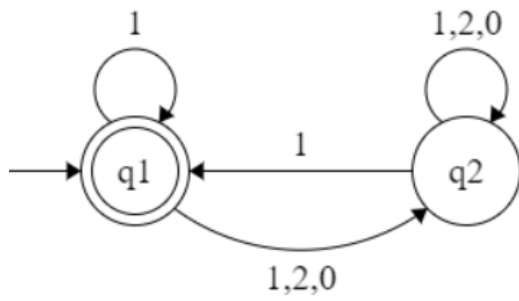
1.

2.

(0*1((10*1) ∪ (01*0))1)* ∪ 0*

3.

a)

1

1,2,0

q1

1

q2

1,2,0

b)

$(1^*(1 \cup 2 \cup 0)(1 \cup 2 \cup 0)^*1) \cup 1^*$

4.

a)

2,0

0,2

1

q1

q2

q3

2

1
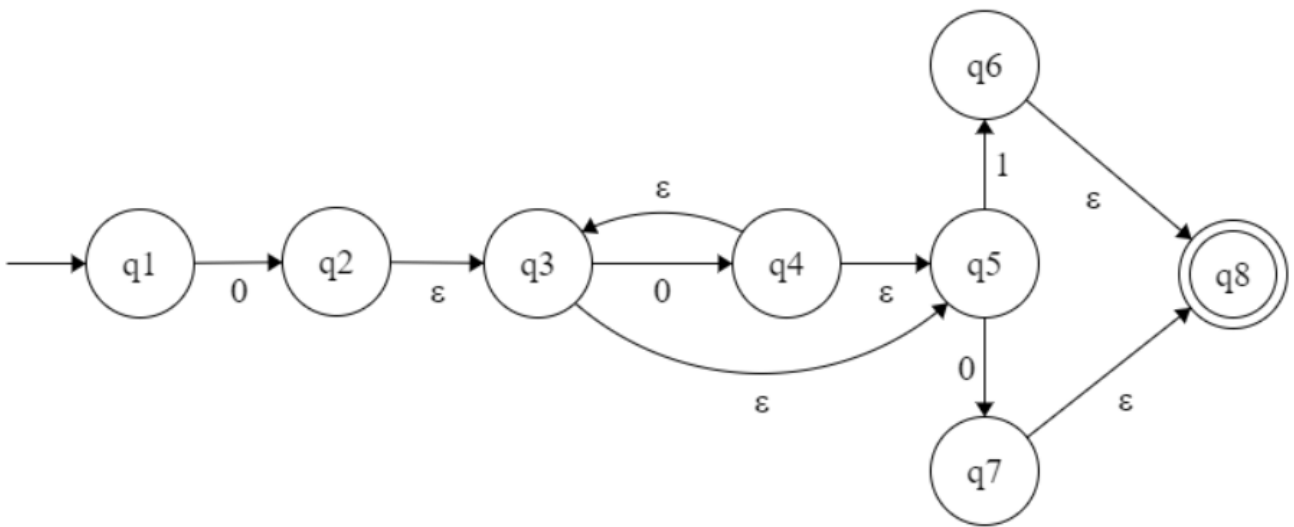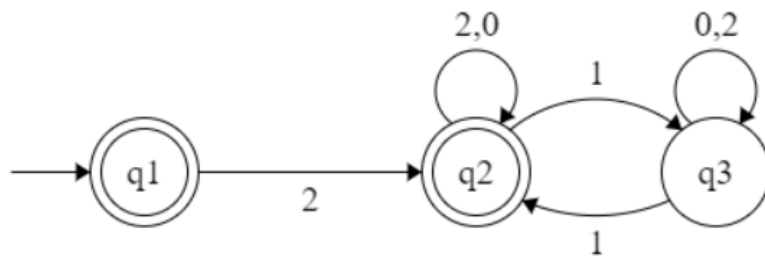
b)

$2((2 \cup 0) \cup (1(0 \cup 2)^*1))^*$

c)

In the input string if there are even numbers of "1" and one or more "2" and any number of "0" then the number is divisible with 2