-começam com aa;

S -> aaP

P -> bP

P -> cQ

Q -> c

S’’ -> P’’c

P’’ -> Q’’c

Q’’ -> Q’’b

Q’’ -> aa

-não começam com aa;

S -> bS

S -> cP

P -> cQ

Q -> a

S’’ -> P’’a

P’’ -> Q’’c

Q’’ -> R’’c

R’’ -> R’’b

R’’ ->

-terminam com bbb;

S -> aS

S -> cP

P -> bQ

Q -> bb

S’’ -> P’’bb

P’’ -> Q’’b

Q’’ -> R’’c

R’’ -> R’’a

R’’ ->

-não terminam com bbb;

S -> bS

S -> bP

P -> aQ

Q -> aR

R -> c

S’’ -> P’’c

P’’ -> Q’’a

Q’’ -> R’’a

R’’ -> T’’b

T’’ -> T’’b

T’’ ->

-contém a subcadeia aabbb;

S -> aS

S -> aP

P -> aQ

Q -> bbR

R -> b

S’’ -> P’’b

P’’ -> Q’’bb

Q’’ -> R’’a

R’’ -> T’’a

T’’ -> T’’a

T’’ ->

-possuem comprimento maior ou igual a 3;

S -> aP

P -> bQ

Q -> cQ

Q -> cR

R ->

S’’ -> S’’c

S’’ -> P’’c

P’’ -> R’’b

R’’ -> a

-possuem comprimento menor ou igual a 3;

S -> aP

P -> bQ

Q -> c

S’’ -> P’’c

P’’ -> Q’’b

Q’’ -> a

- possuem comprimento diferente de 3;

S -> aP

P -> bQ

Q -> cQ

Q -> cR

R -> aa

S’’ -> P’’aa

P’’ -> P’’c

P’’ -> Q’’c

Q’’ -> R’’b

R’’ -> a

-possuem comprimento par;

S -> aaS

S -> abP

P -> bc

S’’ -> P’’bc

P’’ -> Q’’ab

Q’’ -> Q’’aa

Q’’ ->

-possuem comprimento ímpar;

-possuem comprimento múltiplo de 4;

-possuem quantidade par de símbolos a;

-possuem quantidade impar de símbolos b;