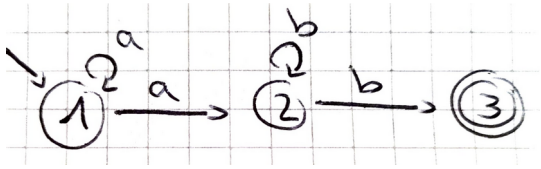
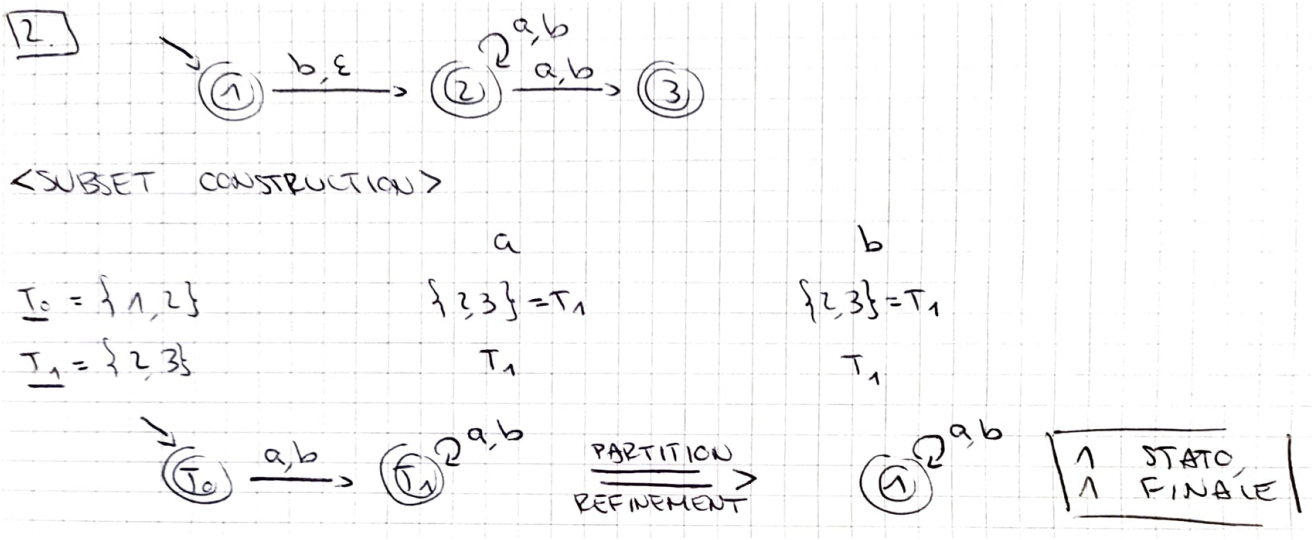
SOLUZIONI APPELLO 2022-01

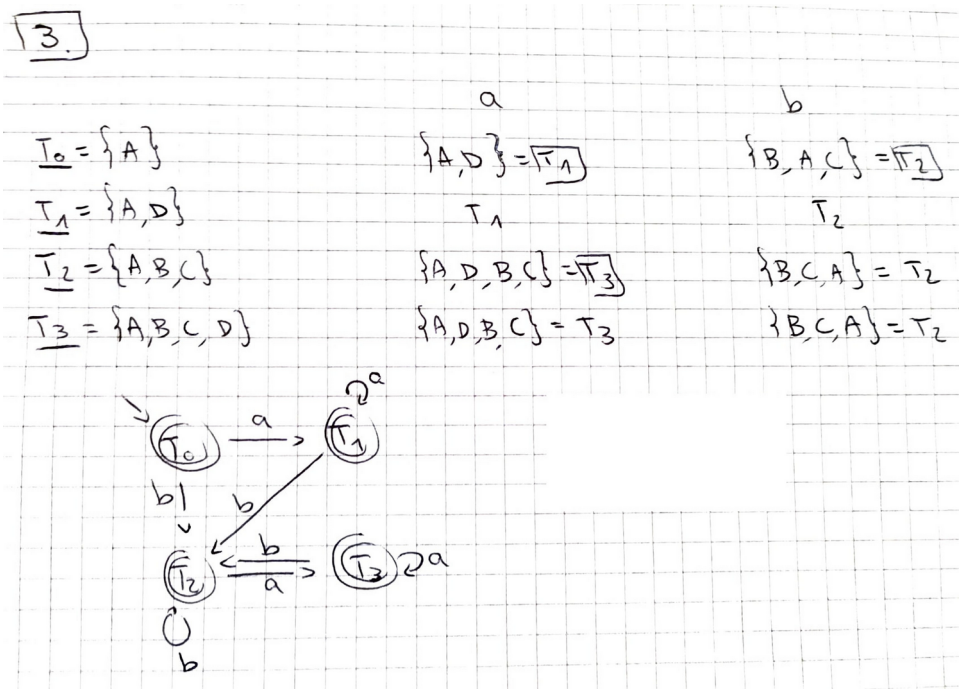
1.
SÌ.
Di seguito è riportato un automa a stati finiti in grado di accettare il linguaggio.



2.



3.



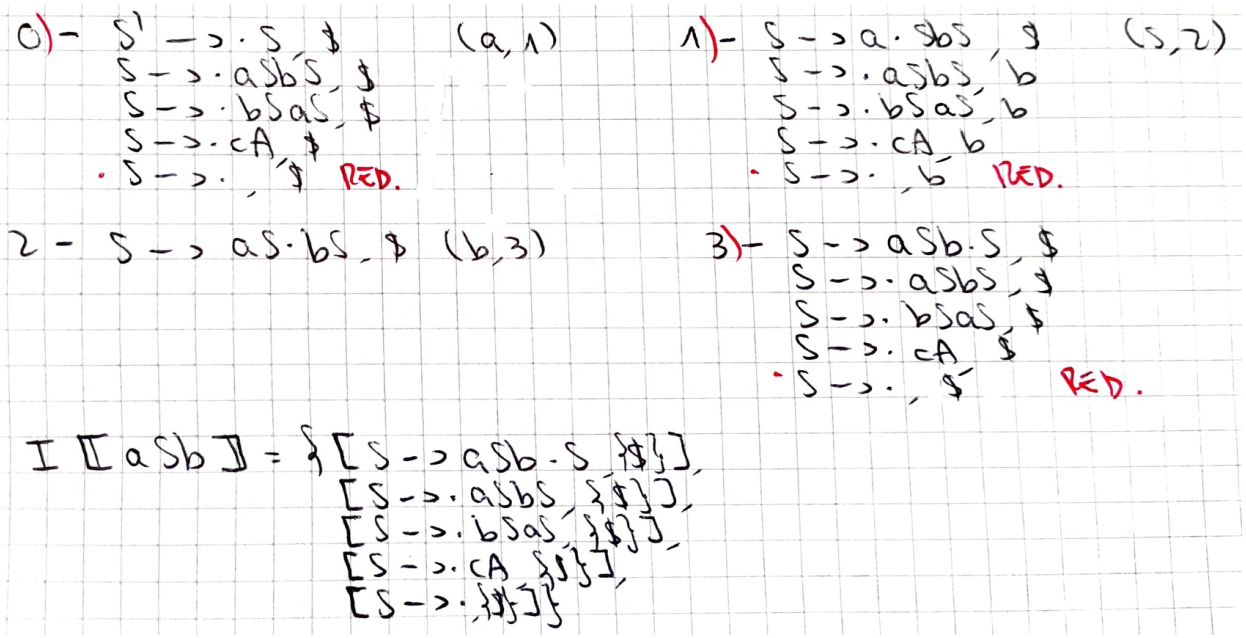
4 STATI, 4 FINALI.

4.
SÌ.

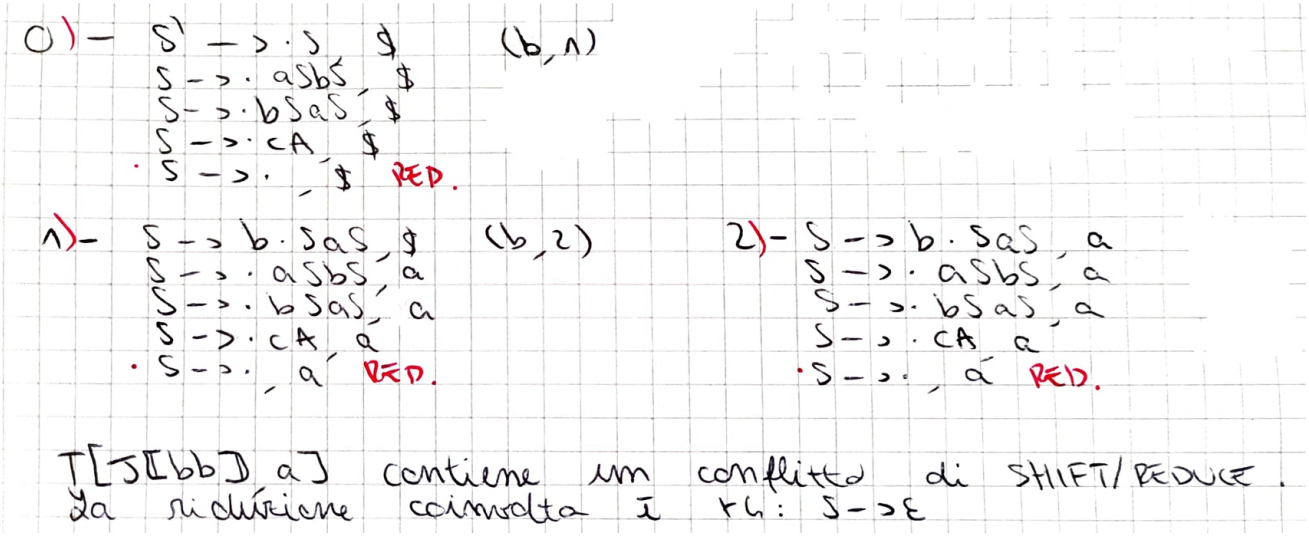
5.

	a	b	c	$
S	S -> ε S -> aSbS	S -> ε S -> bSaS	S -> cA	S -> ε

6.



7.



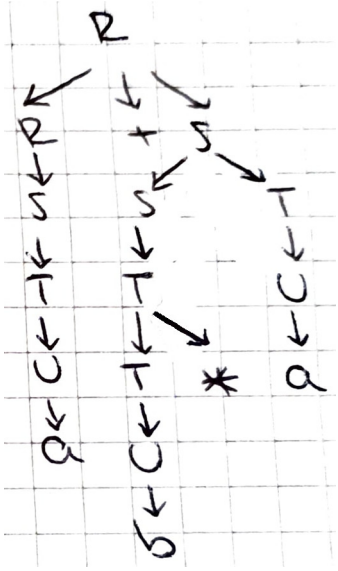
8.
Essendo TUTTI e SEI i conflitti risolti a favore del REDUCE, ogni operazione deve essere IMMEDIATAMENTE valutata da Sx verso Dx.
Siccome 'cnanbcn' appartiene al linguaggio, la valutazione di 'c1a2bc3' produce -3.

9. (IMPOSSIBILE DA SVOLGERE)
S → AS
S → b
A → SA
A → a

10.

[1]
R → R_1+S | S
S → S_1T | T
T → T_1* | U
U → (R)
U → a
U → b

[2]



[3]