CT-2

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Section: 02.

O 017

(i) POA

* In PDA there may with more their one treens toon for each input symbol.

- * Table may contains mullyles deficed entities
- * There is no epsilon hoursiloen, meaning that yourse met allowed he change states wheat comming anything from the imput.

NPDA

envis enactly one hours ween for each imput symbol.

* Terble contains stryle entriver.

* There is egsellen henselvon.

2

(iii) wort to the above statements, language formed,

Lz & (21m) (40m) dn bm/m,n

Figs

Timput : are cricals

Output : Accepted:

Timput : are c c. delb

Output : Net heuplid

Care! m: 0 - In this cases the spent strong will be of the form of (4th) dry. In this condition, there on pushing e's on the stack with we encounted as. The de strong encessed at the el's of the strong one processed. If we need to the end of the supert strong end the stack be comes empty then are acted to the final state.

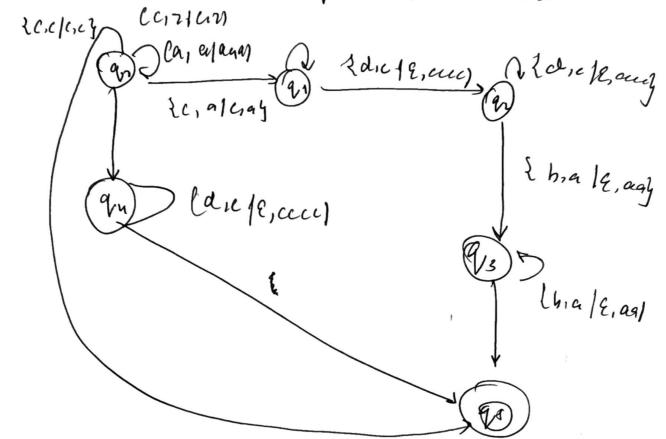
Care-2 neo-1

In this case the ight string will be sof the form I a (2 tm) pm J. In this condition, keep son sputhing a's in the etack until we encounter with b'. On oreviewing be wheck if top of struck is 'a', thus pop ac' from the stack. Keep up propping and worth all the b's cof the string are processed. It we need to the end of the sput string stack becomes empty, thus vieweded to the Arnel stack.

Cluse-3 m, n > 0 -:

Form & lakes the hout shing will be of the form & lale miller ling. Keep on pushing a's and is he stack will me encounted with d. Keep on popping aris until all the this of the shing are processed. Then veryest the process on case 2 wintil reached to hind or dead state.

In this case the input strong will be emply. Therefore divertly jump to Hund state.



C) (case i)

koremyte:

~ r ggggvy, rrrrgggggggggvvyy

(V) (lene i) 6 nample:

~ ~ 9999 , ~ 99

A the we can see to in the plane 8hing them are more than 2 parce here, so the grammar or ambiguery.

(a) 2= an 19, n, let n, y2 6. Cubi: S-3 as (18)E

(d) hebt most denivation for.

B- box] E

a since

@ 1= la + b4 , n 3

Let n, y 21

Let the string he arb3c2: an losbecc.

- 1 2. 1 a 7. b a 1 a

6, a 1 a

6,

(C) Trustantaneous Description:

S (born, 20) = (qui, a 20)

f (po,a, a) = (po, aa)

d (qob,a) = (q,a)

((gre, a) = (2, E)

& [\m . (19) = (92.8)

((P2, E, Z) = (P3, E) = had elate.

Turnshile Notation :-

for the string,

D Rules for making a regular arca

- · It should have a now knowned my Mu left sod
- have a right hand side that is s a style terminal a single terminal followed by a single non- terminal.

But in aux praductions S-sasciand J-88 mis violenting Mu ends of the originaler grammer. Henre, ne terregerage cannot be generated by the pregulen grammen.