







Theorey of Computation 12-9-12

> Deductive proof: (chapter 1)

if x>9 then 2x > 22

x=a2+62+c2+d2

- Deductive Proof

if then relation:

presot about sets by contradiction

by counterexample

>> presof about setn:

AU (BNO) = (AUD) n (AUC)

>> proof by contradiction;

If not a then not H

-) proof by counter-example:

All odd numbers are prime जीव जिंदों एर दीवर

P xx statement not fix

There is no paire of integer

a and is such that

a mob b=b mod a

2>6

こうつうりょうううううう

a mod b = c = [0,b-17

b med a = b

b mod a > a mod b

a.Lb

b med a = c [o, a-1]

a mod b = a

a med by b med a

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a mod b = a mod a = o b med a = 0 in it a \$6. Then there is no point of it a integer a and b such that a med b = b med a

> Industive Proof . A S(b) -> -Are integer "n"

Basin -> Inductive Step

Basin: n = do1) S(0) orc 1

Hardine Step!

SO 121 14SG Then Scha)

2=9 then 22 = 22

Basin ; 2=4 x2= Inductive Step:

 $z^{x+1} \geq (x+1)^2$

for nzo

 $\sum_{i}^{n} = \frac{n(n+i)(2n+i)}{6}$ 1=0







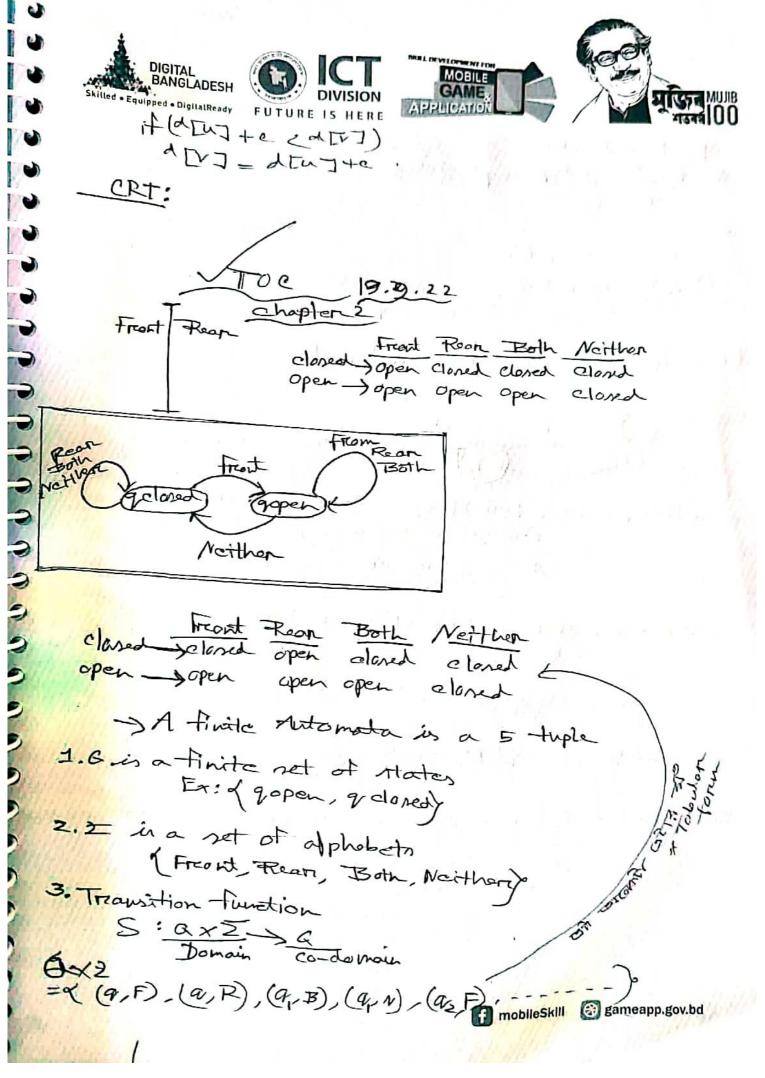


$$\sum_{i=1}^{n} \frac{1}{i^2 + (n+1)^2} = \frac{n(n+1)(2n+1)}{6} + (n+1)^2$$

$$= \frac{(n+1)(2n+1)}{6} + 6(n^2 + 2n+1)$$

$$= \frac{2n^3 + n^4 + 2n^4 + n + 6n^4 + 12n + 6}{6}$$

$$= \frac{2n^3 + 9n^2 + n + 6}{6}$$







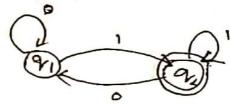




9. Initial rolate % Ea/ Va Ea 5. Final state/accept static FSQ

(G, I, S 9, F (49,92), (F.R.B.N), E, 9, (01, 92)

DFA: Determinantia finite Automata



-> 11001: Ac: 1(9)>1(9)>0(9)>0(9)>1(9) [Thing 2024 Cas on finde state] . M L(M)=A

-> 0010: W: 0(9) -> 0(9) -> 1(Qr) > 0(9i)

Entring 2121 (and ordin fivete whate and

M= (QI & QO, F)

M LCD=A= [a) so in the not of Strings)o that ends with 1

Exm: automate Their Sts Bigis Leading pouland sisses St





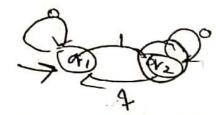
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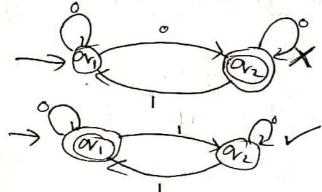






M=L(A)=A= (W/W contain odd number

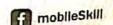




Input = (0,1,01,11,110,111,111,6000-

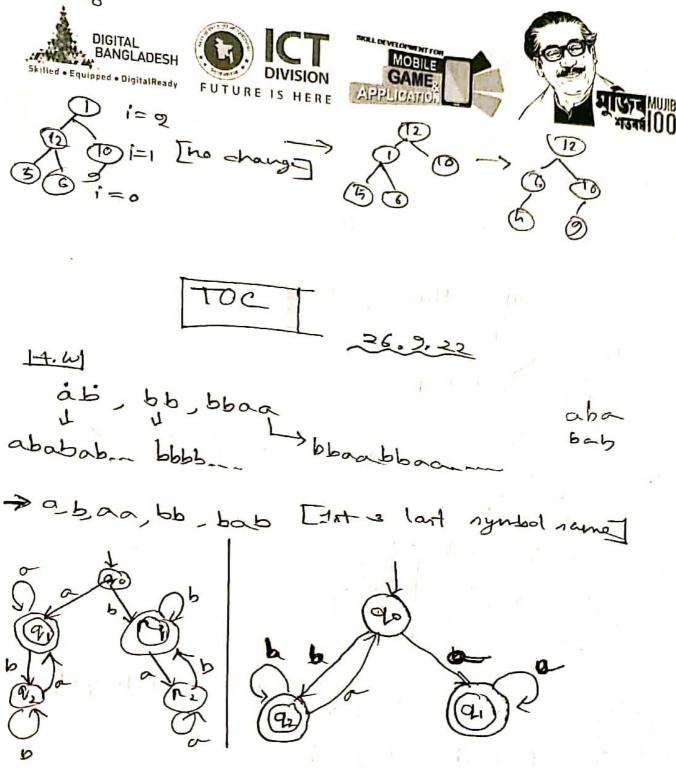
A = of who is the String that contains Substituting only





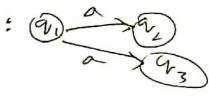




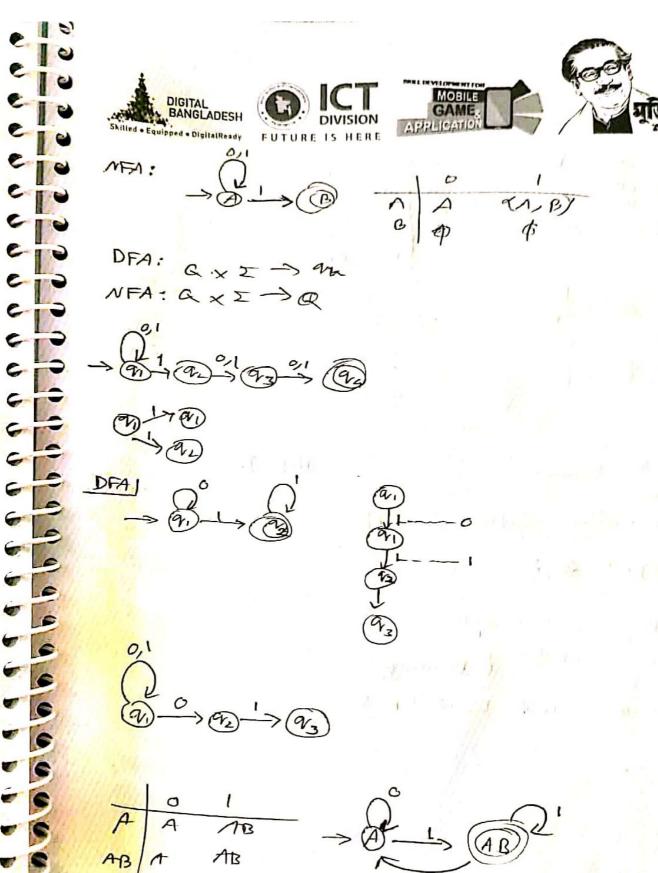


L= g'set of all straigs over (c) that ends

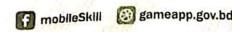
Q -> starct GXI > 9h I -> alphabets



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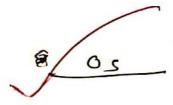












11,10.12

Operating System Concept

Chapter-3:

-> preocosses

breach concept

>> process state (Diagram)

-> Proces Control Block (pcb)

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