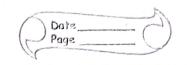


	Date Page
Defnot a language in toc	
Language -> language is a.	set of storing.
when any language doce no ?	t contain any string
when any language does not then it is said as emp	tu lomanage.
B	J. J. J.
aperation on language	
total 5 operation	
1. union 2 intersection 3	difference y concatenation
5. kleen telosure	THE THE Y CONTESTS
1· union	
het two languages L, &	La
ng for savigos for 21	
4-120,16	-12 { an/n>0}
	2 = { bn/n >0 }
125	L1 U L 2
- 1- 4 gal	5 an (26n   n > 0 }
L2/5668	Latineans all the
in same	languge after union
2, Intersection	2
LI = { ambn/n > and	m > 0 6
Le = 3 ambn/ bham	$\frac{1}{2}$
	11
LINLZ= Zambn/n	20 and m 20 g

r ·	
h=2 m=2	3
- 45 3 a <sup>2</sup> b <sup>2</sup> 4	
- Munion. Lall the demente from both	1
- language	
- 101 21 2 P, 9, 2 Y	1
Let Li = \( \frac{2}{2}  \text{p,q,r} \\ \frac{1}{2} - \frac{2}{2}  \frac{2}{2}  \text{q,r,s} \\ \frac{1}{2} - \frac{2}{2}  \frac{2}{2}  \text{q,r,s} \\ \frac{1}{2} - \frac{1}{2} - \frac{2}{2}  \text{q,r,s} \\ \frac{1}{2} -	
- 4,062 = & p,q. r, s f	
= 2) elementsin 1,00 El,00 L2	
- Commy of Cion Colo	
2). intersection.	
getting common étrings.	-
L,= & p,q, r & 22 & q, r, s f	
L3-4, 1/2 - 5 0 1 mole alexand	
13-4, NL2 = {q,x} where element of	
ly E Ly and L2	-
B), concate nation.	
Lj- 3 p, q, r & L2 2 f a r 16.	-
	_
then Lz L1, L2	
= 2 p.q. r & 2 q. 8 , 5 4	
	-
2 P2, Pr, ps, 22, 27, 93, 79, 00	54
	٢



4) kleene clousure when operation is performed on a sigle language

Lett => L1 = {a.abc.bay.

L, = 20, abc, 69/29, abc, 69}

- { aq, qab(, aba, qbca, abcabc, qbcba, baa, baabc, baba}

13 = L1, L12

but Lo= {E}

Tepsilon -> for mull

=> kleene closure of L, L, = { E, L', L, L, 13...}