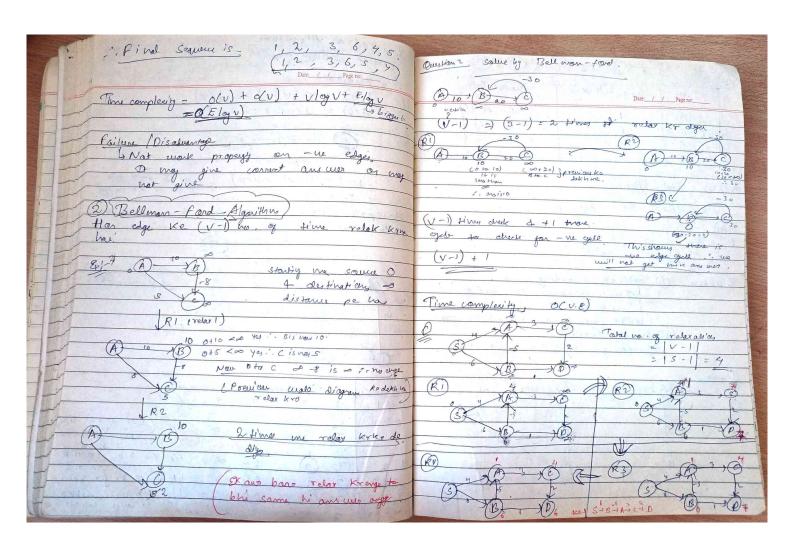
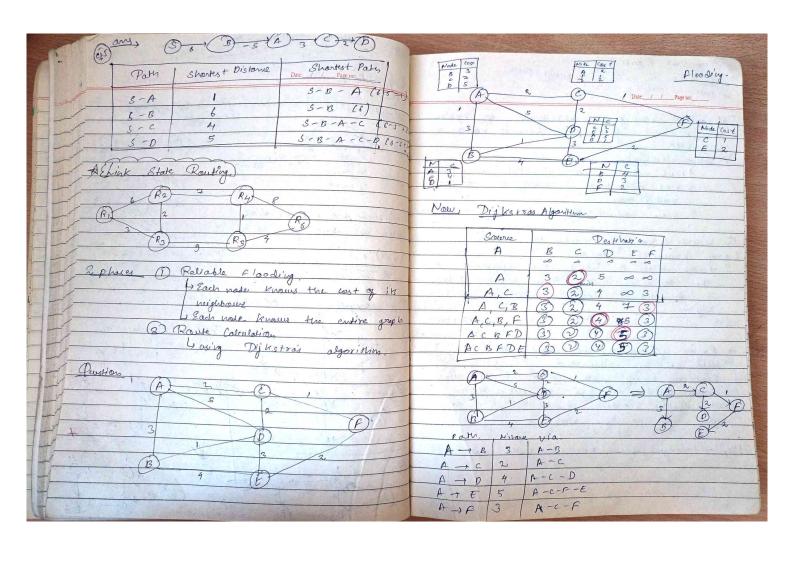
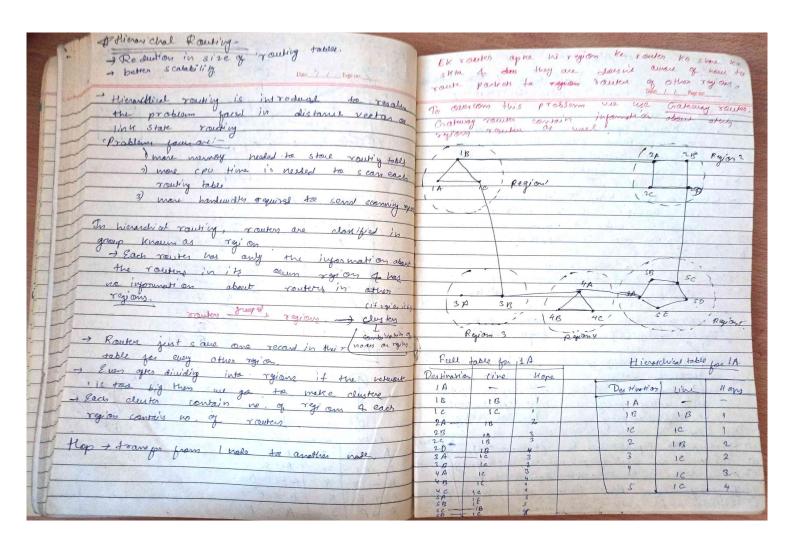


Ocentralized algorithm your path you source of shire	
To finds the least cost path by source of destinate node by eving global knowledge about the natural	Dig ks trais Algorithm. (Single Some shows)
So it is also known as global routing agaring	C, used in Google maps. Party
3 Trolated algorithm	te Rolardion Date: / Page nor
This also the process the routing information	
curing bocal importantion instead of anti-	d(v) = d(v) + c(v,v)
This algorithm process the routing information to cusing board information instead of gathering information from other nodes.	E: 0 20 X2 10
	73
3 Distributed algorithm	The second secon
Hiso known as decentralized algorithmy as it	Jev) + ccv, v) ≥ Jev) }, Now D → 10 me 0 1 20 < 0) 3 00 28 20 no py.
computer the heast - cost path blu sau	0120 < 0) () as at as he app.
4 destination in an iterative 4 distributed	Har path ko compare Krot charger cuda
mannon.	20 30
Non-Abotho Paulin No 14	() " () "
Non-Adaptive Routing Algorithe	40
Also Known as Static Rowing Algorithm	Solve is D
information stores to the routing	00
Non adaptive routing algorithm do not to	14 (3) 11
take the routing decision based on the	9 10 15
network topology on network train	3 Da 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
O Flooding on network trapic	
flood of when a data made at a side at	Source Destination
Frante, it is sent to all the acit going links	1 2 3. 4 5 6
Except the one it has arrived on Flooding	
may be uncontrolled, controlled on schelled for	(1) 9, 00 00 14 (1 Hard dusta)
	11x. Small has 000019 Scheichte Solet Kring of
- (2) Random walks:	1 2 (7) (9) 22 0 14 Ab 2 bhi source for
This is a probabilistic algorithms where a data	12.3 9 9 20 20 10 11 11 11
purket is sent by the one there o data	1,2,3,6, (2) 3) 20m 20 (1) Ab une saka
packet is sent by the rautes to any one of it	1, 2, 3, 6, 45 7 9 Down Lo (1) Ab unse sakka
	113 T







to Comme tion Compact Algorithms	
A Congestion Control Algorithms	Closed Loop- back premus
(con gustion) is a network may occur it that apain the load of the network is greater than the apain	Mback pressure same [] [] [] [] [Bank)
the load of the network is greater than that capain	Oback pressure same [1 [3] [4] [besn'y]
of the intwork	eys transport conjusted downs
2:- Doublose'y copacity is more then capacity	Choke purp
of our whereok from which we are	D chade packet
doesn'early, internet become alow trying	6 Load streeting source 1 2 3 ty build
New ork show + sley - blets law may be due to trappic	Techniques 12 policy of which south the cold is both the word policy of the cold is both the word of a writer policy of Templicit signality. (3) Implicit signality.
	G. P. January 2 police - cuive cold is better the way - wine policy of milk (very is betty knows) - will all
congestion controlir Royan to the mechanism 4	(3) Implicit signally,
techniques that can either prevent	course givesses there is a congestion in the
congestion began it happens or remove	ack vouledgement.
congestion after it happened.	Source Slow down, forward signeding
	(a) Explicit signaling of Rukward signaling
Congestion Control.	Bending direct signal to source or destination
	(downerd car packward direction).
Open loop Charles loop	montan network traffic, deter conjustion to revent
Company	\$ General principles of congestions countrel, network callepse.
prevent congestion & remove cargestion?	The primary goal is to manage notwork traffic
before it happens ofter it happens	to prevent congestion & ensure efficient data
T Policy Williams	transfer.
Retransmission policy 1 back presure	Principles include traffic shaping, load balancing,
All Alexander	resource resource allocation among users mechanisms to ensure pair resource allocation among users
Acknowledge policy & implicit signality	Grenentian policies i
Advising policy explicit eigenting	A Pontila almaina:
Open hoop to Admission policy. Is load showing.	O Proffic shaping: - Termiques like leaky bruket 4 taken buck et alyanithms
DP-loans is in a labor	Facher and the country the rate of data transmission,
Open Loop O Retronsmission + packet can be retranging the it sends feether O arin day of use solve time raid will be not to be	ral & Admission contul.
the matter instruction of the languistics	Date in whether a very date for be
morninger - sometin	and made to with and degrading sorvice for existing flows
discarding policy - Router discard less somitive packet	accomplated without degrading service for existing flows of Priority schomes + Accigns different levels of Priority schomes + Assigns types of data.
(5) Admission policy i quality of service nections is likely to happen	and

• 1 23		me resource for priority.	Learny Bucket Algorithm. The strongs burning trappic into fixed rate trappic by
5+0			It shapes bursty troppic into fixed rate troppic by auroging the state rate.
- H Conge	ition control in Vir	rotual-Cir out subjusts	
	1	The state of the last	- Bucket with a hale at bottom.
1	Not needed	Virtual circuit subject	on flow of the water from buset is at a
arouitsetyp	Not needed	Roquisel	constant rate carrier is independent of
			enterly the builter.
Adversity	Eads parket consing.	A North Add - 1 to the last	- Ty bluck et i's feel, any additional water en
1	the full source and	Each packet contains a	in the bruket is thrown out.
	the full source and destination addrey.	- short VC nermap	in the bruket is thrown out: I The input rate can vary, but the output
1		Each packet contacts a	xemaily constant.
Routing	Each packed is round	2.3.4	
	independenta	Rouk chosen was VCissed parkets follow it	(b) Leaky backet with water. (b) Leaky backet with
1 estimate	2	partie forma 16	Beauty flow. Host Computer. Pac
1_908	Disting.		
- Congetion and	Difficult.	ast,	3 curry
	bb.	Easy.	water.
A SHOW S	26.6.7	- Innies	
A Come as	dia N. K.	· Jacobin	Fixed D
B To	ation Management Police gic Shaping -> Leaky Bucket. -> Token Bucket.	See_	□ Re
C Nay	The Shaping	The state of the s	I D
	- Leaky Bucket	Charles of the state of the sta	Network
P	+ Token Bucket,	The state of the s	A simple leaky bucket algorithme can be imp
1 saffic	shoping is a networ	K (Congretion) management techi	is is fifo guard. A FIFO quem hold the
			A simple leaky but at algorithm. can be implied the using FIFO grown. A FIFO grown bold the
	-> Mechanism to contr	of the amount of the rate	of Arrival Full? I pracessed)
			Discord.
1 200	Also known is pro-	tot work.	Discord.
-> Regular	te rote or D.	staping	
	h and that	nd (misicion)	Come tend. I at a with the Barety date we have
	eigs to reduce a	engestion) a dollroad cuithout dolay mance.	completed) rate of data place. It major pro
JP ()	riority application ory	& delivered without dalay.	It can not deal with mos Bursty data we have

Token beeket Again term, All aws to bursty data to and ferre Modification of Leaky bucket The I which leaky back, can thin tokens A taken (s) are generated at every clock there, I a packet the best trans united, cystem must be token token from the bucket Steps, O In regular interpret bekens are thrown into the bucket By the bucket has a maximum copacity. By there is a really packet, a taken is remained from the bucket, the packet is as solven in the bucket, the packet is as a solven in the bucket, the packet is as a solven in the bucket, the packet is as a solven in the bucket, the packet is an above in the bucket, the packet is an above in the bucket, the packet is an above in the bucket. The transmitted is no solven in the bucket, the packet is an above in the bucket. The bucket halds token and token in the bucket halds token and the bucket is an above the transmitted in the bucket halds token and the bucket halds t	Open loop - (prevention) Refrom mission O window policy - [1] 2 3 padent removes joby wing and padent removes joby writing uninder policy it with cour writing uninder policy it with cour word specific parket that have been lost. Vixtual circuit - Outgram. - Same path. - Same path. - out of ander - connection existed - course in less. - Not carly - Not c
Post not soul token Town to the task of the soul of th	One congestion has been a free the problem has circuit can be set up until the problem has gone away. (1) Alternative Rower. Po awaid: paw of the navyack, that is over loaded ine, temporarily rebuilt your vowag volument.

Congestion control in Data gram Subvet	
. O The warning bit.	of Quality of Service (005)
when a new packet is to be toward mitted as the own	the control of the characters of by 4
10.	The needs of each flow can be characterized by 4 primary parameter? bandwider, doley, jittel four form. Payeron
like marked as washing state, a special bit is added	parametry: para autor) Date: 17 Page no:
in header to signal this state. At the destinational injurious is sent back with ACK 1	Several common.
information is sent back with ACK to the seasons so that it could can the to tradice whom we have	We try to creak an appropriate environment for
so that it could cut the traggic. When warning is absent a Sender increased it transition	troppic.
is absent, sender increases its transmitting rave	4 characterioris.
Take	
- Note: I were whate trip (source + destination - source) to be	reliability delay Titles Bandwidth,
the source to slow down	
The state of the s	O Reliability hack of reliability many labing a packet
1 Chake packet Tahwique	ar ack cidely high if it happens, the
the Tours bondes chale	packet is retrem in the which declare reliable in the
	got amail, File tray gov.
	(2) Delay + source to be hiration delay.
the forwarder is the usual way	
	Technically for activity good pos
3 Hap by Hap chare Packets Laws	o rother evening & Koloma. Reservant
con En His also rough and the	3) Packet Scholling 4) Baffer manyement.
Start from intermediate had	& Palicing 1 stoppin
Start from lister model had. Tather them source	The Property of the State of th
provide quick roling at the	Proppic management: - Load balancing, languetion landal, Admis
provide quick rolling at the point of conquition at	(Pos anchi fecture model /
Dhoad Shessing	A Integrated 4 Differentiated Services !-
Rose Trus H	
Rank Tust throw packet away.	Integrated Services (Int Serv)
	(-) Provider end - to -end Oos by reserving resource
1 Titteo controli	to a the though
Titter, is simply the difference in parket delay on other	- MICH PCUP (Resource Reservation product) to significant
words, gitter is mercury time difference in packet	
inter-arrival time: Titto show be minimized	I used to as tablish dynamic ROVP over network
www.zod.	

Int Serv	
O RSVP + Resource Reservation Protocal. La End-to-end DoS guarantess. Date: // Page no:	the second
RSVI 1 0 C. 1 - to - end QoS guarantes.	
Page no:	trons por
- 13 as - 4 - 9	Socket P
Prioritize atrappic:	of Da
B) Real - Time Pransport Protocal (RTP). 1) Ensure timely deliney.	control
1) e de la la constante de la	HE .
Ensure They dell vay	UDP: He
A Ditto wind comin (Di	sess ion
Differentiated Service (Dig sorv)	
O Claus	A To ansp
(32 A traffic of pointy classes,	-) enc
32 Differentially treatment.	ade
O Classify traffic + priority classes. (2) Accign Dscp + Differentially treatment. (3) Queue management + Prioritize traffic. (4) Traffic for Litowing + Enforce policia.	ex
17 Trapic an Litowy + Enforce policies	L. Janes
	1 200
Key Protocol ORSVP. @MPIC	1
Key Protocol : ORSVP, OMPLS & Different Comments of Different Comments of the	
THE REDIWRED	
TRSVP -	
Reseauce reservation protesul is	FI Charles
that holps emilia	
The recenses to	James v
the many of the same of the sa	the OSI
RSVP is wed to signal the Dos need of application	-) It is
traffic to a great the Dos needs of application	
resource response	rumu
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C) Receive - in Halined.	Data 1
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