

hai-

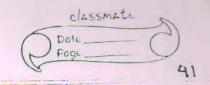
pharature Stuffing:>

transmit Karo.

Character Stuffing Technique Kja Kahate hai Character Stuffing technique assume a farticular Character to represent frame end.

Iska kya matlab, hamne assume kiya ki frame lingth to assume Koula how it'.

Joh Sender Kya Korega jara frame ka end hua



waha Kya affrend kondega y, neweren kya konega jab tak y nahi aaya, jab tak woh frame ko mad kanta mahaiga.

- Aun jaisehi y aaya, kya assume kan liga reciever ki fahali frami endfarminale hogayi hai.
- Now y K boad dusn't frame Etant hogayi hai.
- · Joh in Character Stuffing we assume that a farticu - lan Character referent frame end.
 - Joh hamne example K lûge woh farticular Character kya le liga 'y' le liga hai.
 - Now aab froblem Kya hoù 'V' Kya data mein Nahi
 - Aasakta hai aab data mein V aagayo, toh nevierren Kya assume Karliga, frame end hogi:
 - Joh istage iske lige hum character stuffing, stuffing is lige is me use kiya hai agan data mem agan woh y aaya, toh us 'y' R saath ek additional y' stuff karacya.
 - Agan data mein y aaya lah sendur kya karega is y K saath ek ara aun y laga dega.
 - Joh data mein kabhi bhi single x kabhi bhi pahi aayega frame kend



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Joh aab Hewever Kya karega usko do j milegry do kra galat nahi milega Kya data, bheja toh hamne afflication layer se ck hi j tha

Recievu Kya karuga jab bhi do y dikhe, toh kya usko frame end consider karuga, toh nahi:

Exame end toh \ \frac{1}{2} tab consider karega bingle \frac{1}{2}

Agan reciever to do y mile both et y to stuf

Aux jaha usko single y miliga wahi usko assume Koun Kanga ki frame endf turminati hogayi.

Ibn yen tichniqu kya kahologi hamani Chanadur. Stuffing.

end of 1st frame end of It frame

Character Stuffing

Character Stuffing mein hum ck farticular Character ko assume karte hai ki kya, represent karta hai frame ka end.

Aun frame end fan hi woh Chanacter dikheda.

Agan woh data Chanacter data mein aaya toh, aaisa

Ka aaisa hi woh Chanacter affend hojayega.

Joh dain mein Kabhi bhi single y nahi aayeda.
Agan aaya bhi toh double y aayeda.

Recievos Kya Karuga double y dekha ek y kodrob Kandega kyoki usko fata hai dusna stuffed 'y' hai Ki Sendon ne intensionally diya hoga.

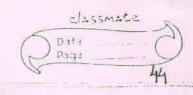
Aun jaha neweren Ko single i mila, waha woh kya assume kan lega hi frame end hogi hai.

Joh Chanadur - Stuffing ka advantage clean hai, agan Commistuoin bhi hua. Y Ki stace fan I hogaya

Joh aaf fahali frame Ko Sahi larike & Hecondize Mahi Kar faogry, likin aaf dusri frame Ki end Ko Meconginize Kar faogry.

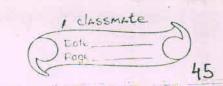
Agan ek frame courupt hua toh uski frame boundary ko neconizi nahi kanfoogry, fram dushi frame ki boundary ko neconizi kanne mein kohi froblem.
Nahi hogi.

Joh fahali wali technique mein kya horaha tha, agar ek frame corrupt hu top aaf saari frame



Mecanize nahi kan fanahai ho.

- Pan yaha ek ka connuft hua, jiska connuft hua woh aun uske baad wali, yet do aaf neconine nahi kan facogry.
- Baad wali ka y' Sahi aanaha hai toh uske baad fuames min aafko kohi problem nahi uayedi.
 - Again fixer france converse bagaying
 - Jon & Charlester Stuffing
 - Pan Chanactur Stuffing technique mein broblem kyr nai, agan buri frame mein aabko x bhejma nai, toh aabki frame lingth kya hojayedi double, han x k niche ek stuff x, aun agan aabko lo y send kanne hai toh aabko kitane bhujane baruguy 20 'Y'.
 - Joh unit of Stuffing is 8 bit aux bahut jæda hai yeh.
 - Ssiège hum Characture Stuffing bhi use nature Karte hai
- · Joh frin konsi technique use ki j'ata hai, Bit Stuffing.
- H Bit Stuffing: A fakticular bit father Hebresente frame bought. end.



- Jaise hamne deurde kirja own bit fallung is 6 consecture one's
- Agan 6 one (11111) ek sath aagaye toh kya hoga, toh kya hoga frame end
 - Six one ek saath kaise aayegry top sender frame k end mein six one affend Randega.
 - Aun jaisehê six-one ek saath aage, Huieven kya assume Kon le ga kê frame end hodayê hai.
 - In bit. Stuffing a farticular bit father is assumed to indicate frame end.
 - Joh abhi filal bit-stuffing ne kya assume kiya six consective one's.
 - Jaise Heriever Ko, six oners dikke woh kya assume kan liga ki yen frame end hogayi hai.
 - Lekin Shir froblem hai six one kaha aasatte hai data min bhi toh aafakle hai tohsix one data mein aayequy toh woh usko kaise handle karega.
 - Agan aakka bit baltun 68 bit ka hai, toh jaischi fire one aaye uske baad six bit kuch bhi kyo ha ho
 - . 5 bit K baad woh kya affend kardega O.
 - · So that Kabhis data mein Labhis bhis sex one

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aayegey hi jahi.

Now aab newever kya karuga, jaha five dekho uske baad 0 hoga toh us 0 ko stuff 0 assumo karke droß kan dega.

Aur jaha six one dikhe woh kya assumu kanega ki frame end hogayi.

Agan bit fathern n. bit ka hai toh woh kitane bit ko check kanta hai (n-1) bits ko:

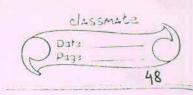
Aur jaha (n-1) bût match hogay?, bahale ntir bût kuch bhê kyo na ho, won kya stuff karuga ?
Stuff Karuga:

ERROR CONTROL:

Ous: Why to use Ever as extern technique & Every Curve occur in data du to attinution, distortion, poise and interface interforme.

H TYPES OF ERROR: >

- · Single but Error
- · Multibit Euron
- · Burst Ernor.
- · Single bit Eurou: >
 Only one bit get countitud common in famable
 transmission



H YRC:→

· VRC Stands for Vertical Reducdancy Check.
· VRC is like family Sy Scheme.

Ows: Yen parily Scheme Kya hoti hai &?

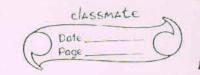
Ans:- Agar aaf odd farily maintain Karke Chalte

ho, toh kya hota hai -

- · Including faity bit number of oness should be odd.
- · Agan hum even pounty scheme follow karde hai toh Kya hota hai, toh including even founty bit, number of 1's lones) Should be even.
 - Suffose given collection of bit is our dataand hamne decide Kiya Ki fur 7 bit hum ek fairby bit insuct Karegry data mein.
- Per 7 bût there will be parity but.

101100111

- · 9f odd farity bit is maintain top is farity bit ki value kitani hogi-
 - Odd farity human kya kaha tha including farity bit number of one's should be odd.
- · Agan hum odd farity likan chal rahai hai, toh Kya hoga - yaha far numburg of oness Ketane



hai 4 i.e even, toh yaha fan faniby bit ki

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Agan odd farity bit maintain Karrahai hai toh farity bit ki value kitane aarahai hai Er I (one).

Agan hum even favily like chal Hahai hai, toh

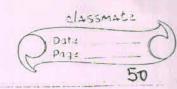
LOILOOL Cever faity

flamme favily bit add karke daia fend kan diya, toh reciever bis Kya Check kerrega ko Kalse foda Chaliga thure is an curer.

Pariby Kitane aane chahiye odd, ton agan remban humbur of ones odd hogey toh nuceru assume Kanega Ki haman data mein kohi evren nahi hai but agan even aaye numbur of ones toh recever assume Kanega Ki data min erner hai.

Suppose hamane send Kiya tha A, fan Huiever ko Kya Mila B toh Heciever assume Kanega Ki evron aayi hai Kya nahi aayi hai

B: 111010001



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Hiciocu	Joh ennon check kanne k lige Sabsi fahali number of ones count kaniga, agan no of ones ones even aaye toh ennon otherwise no ennon. Plum assume kan nahal hal ki necesser odd family likan chal naha hal.
•	Joh B me number of one's kitani hai odd
•	But gaha fan over hai-
	B: TOTOTODT B: TOTOTODT
7	yaha par 2 bit over har.
	Joh family bit can detect single bit ever
*	But yen two bit ki buron ko detect jani ian fayegi.
	Join farity bit can detect single bit ever or odd lingth ener.
	yen onner detect hojayegi.
	Yeh vuron detect hojagegi-
	because your for even = conor codd painty le kay