

2 Parity: 2000 :016 50 270 602133 6 Even 3: N320 bitt entor & Zom detect voor mod ar, Hamming Distance; ninimum number of changes to make one string another x bit/9 bit -> (2-2x) bits invalid

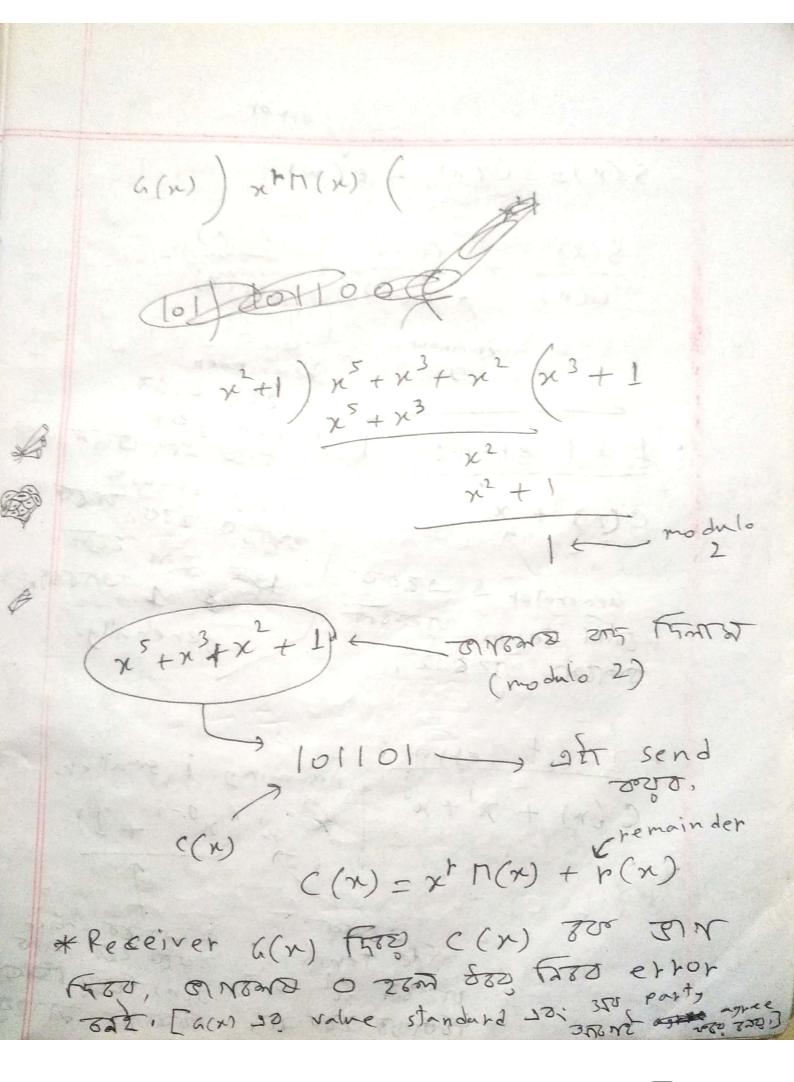
x bit/9 bit -> (2-2x) bits invalid

extrox

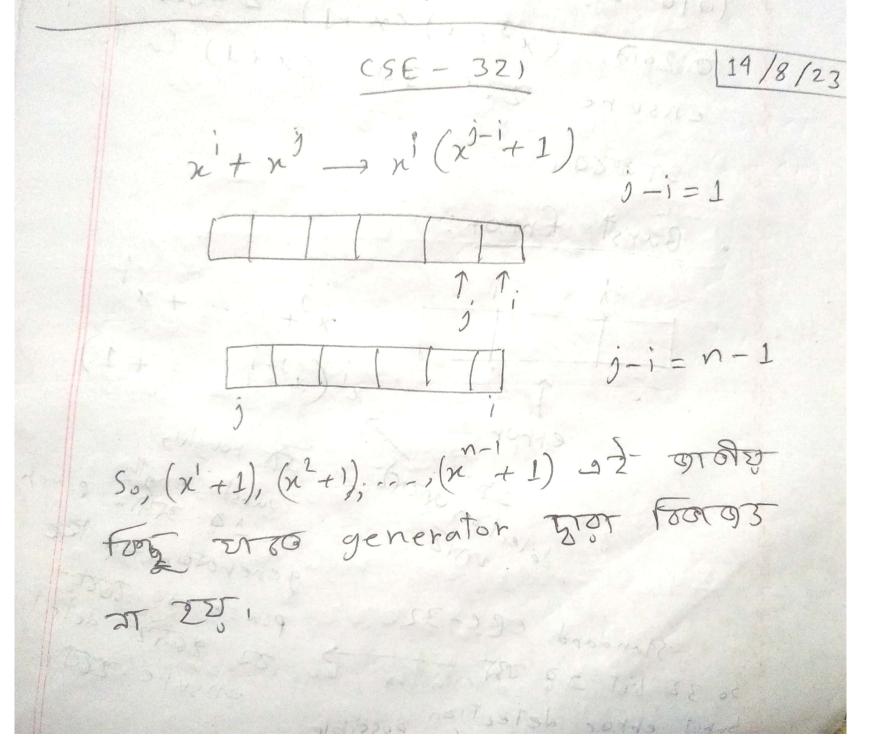
extrox Valid change 270 apr valid 2820 detect voor visor att · neitratab * down t THOME LANDS GIVENTS DESIGNATION TOME MINNE ver tid who come

7: 10 [0 | d(x,7)=2 y: 00 1 1 d (7, 2) = 3 1 2: (10) d (x,2) = 3 1/90 So, I bit change ZEM Sot ENTO, Torgot min ham distance 2. (min han distance 33 3680 1 bit 2025 terror wotz ants 8080 mgaD) + 0 +0 + x = CRC: 133+1326961+ 10101 1 + (0) + (0) x + 1) 9 -1001 00 ((x3+x)(x+1)) = 0 + + x = x 5+ x2 normal = x + x 3 + x 3 + x I=x5+Lx3+x $mod 2 = x^2 + x \pmod{2}$ まましてもまままりをあるい

- Fultory gain means into jain CSE-321 · Error detection DL layer - 3 20, 2010 0 200 010 pop 3 detect zoon stroo. (modulo 2) arithmatic - 9 BENT 20 DUS XOK SIGNED ST. generator (m(n)=101) 4 bit = 6(x) = 10) $\Pi(x) = x^3 + x + 1$ $G(x) = x^2 + 1$ $\chi^{2} \Pi(x) = (\chi^{3} + \chi + \chi^{3})(\chi^{2})$ $= \chi^{5} + \chi^{3} + \chi^{2}$ power 2 Commission of 1014000 and raped



S(x)= C(x) + e(x)4 Vemrinder 1 bit error: Generator 2 28000 generally. DIASAR SUSED C(n) + xi + xi | Assuming i smaller, 3 33 ses expice affor term कि १९३ अरेट errord n' gin) thou thou रिठावर रहत था। छिंदावर या रहे



· Bos odd 31 instre tot Expor: (x+1) factor vrosom detect John Engo, So, generator Er (010 22, [x3+x] 101524 (x3+x) (x+1) sossy ensure 200 800 (x+1) factor 540020 'I · Burst Error: $\chi'(\chi'')+\cdots+1)$ detection arong. The roughly burst length power. generator 42 tops power 20 8688 detection Standard CRC-32. ensure 280, 50, 32 bit 28 28 burst error detection possible.

burst 23 length 23 262 Sot vojeo for at ensure at, But probability of detection is quite high.

