(DM9 4320 HW2 0 Blake Moore 1100000000 requence: 1110 0101 0000 0011 4B/9B: 11100 01011 11110 10101 NRZI: 10111 10010 10100 11001; (Changes at I and hold over of) 1101011111011111101011111110 2. Result: 11010111110010111110101010111110110 Stuffed: 30+4 20 th 11+h 101 3. Two-dimensional parity allows detection of 3-bit errors. 101010 Using the example to the right we try covering up the error in either the row or column parity bit by 01010 flipping of third bit. It will hide one, but not both. 10001 So all 3-bit errors are cought. 0010101 00000 It we flig the first two bits of the first two rows, the pority bits and corresponding parity byte remains the same. So, it does not watch all 4-6.7 emory, The general circumstance is when 6001 4-bit errors balance 1001/11/000 11 000 the parity bits. MA. 019 1001 0001 011100.11 2-D parity tells us the location (ex. (1,2)) 00111 011 000 100000 of the error, allowing 000 for correction in the 00011111 1001 1-bit error scenario, 000 00001101 If we have a 2-bit error, we only detect 1001 000 it, we do not get the location, so me 00000100 100 cannot correct it, 00000000 100 Megrage: 111 000 11 100

4. B. 1001/011000 11 100

1001

1001

1001

1001

1001

1001

1001

1001

1000

1001

1000

1000

1000

Remainder = 100

10000000000

Give the remainder does not equal zerg there is even.