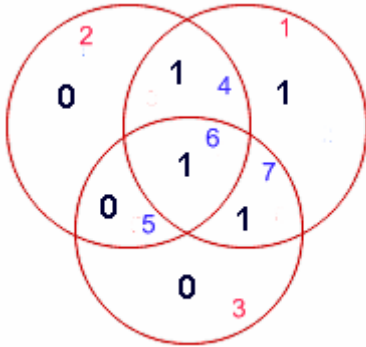


There was something I wrongly mentioned in the class. Hamming code as defined in class is NOT a cyclic code. There is an alternate version of Hamming code which is a cyclic code (ie. All possible cyclic shifts of a codeword are also codewords) The circular diagram for this construction is given as



Here the parity bits are at positions 1,2,3 and the message bits at 4,5,6,7. Also note the way in which parity bits are combined. The first parity bit is the parity of 4,6 and 7th message bit.