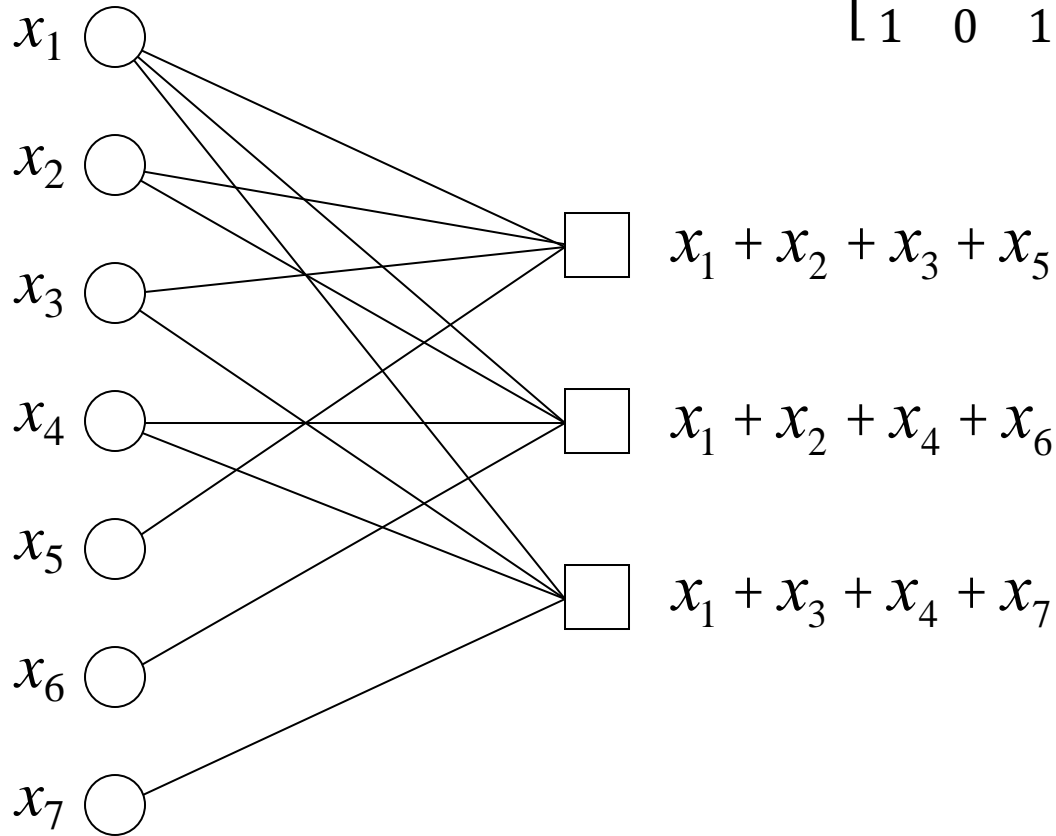
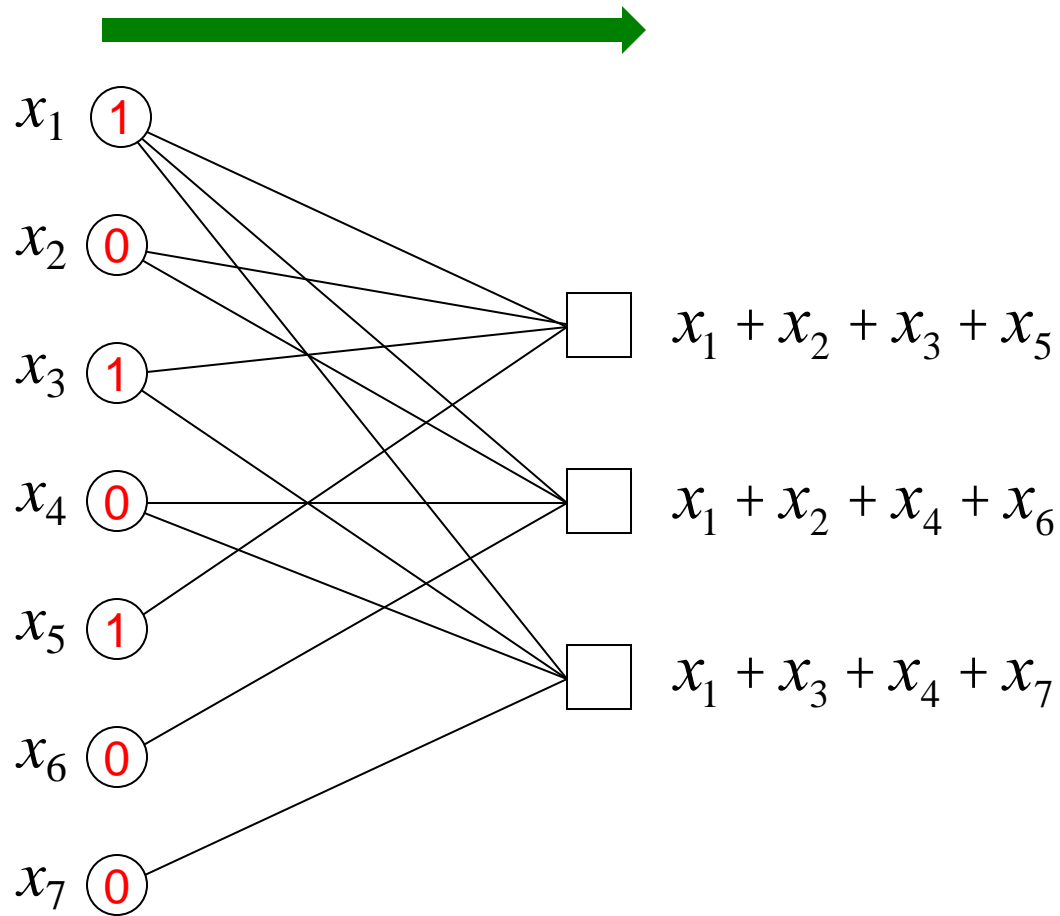


Bit flipping decoding: example

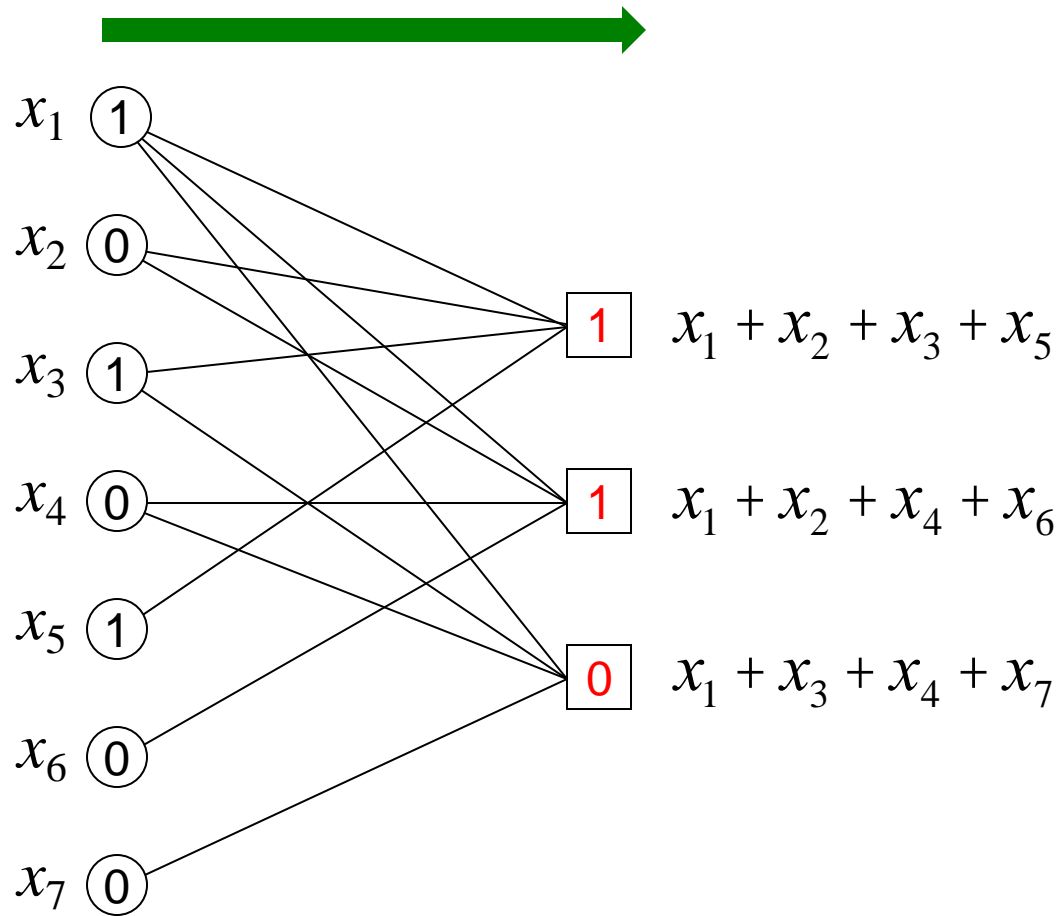
$$H = \begin{matrix} & x_1 & x_2 & x_3 & x_4 & x_5 & x_6 & x_7 \\ \begin{bmatrix} 1 & 1 & 1 & 0 & 1 & 0 & 0 \\ 1 & 1 & 0 & 1 & 0 & 1 & 0 \\ 1 & 0 & 1 & 1 & 0 & 0 & 1 \end{bmatrix} \end{matrix}$$



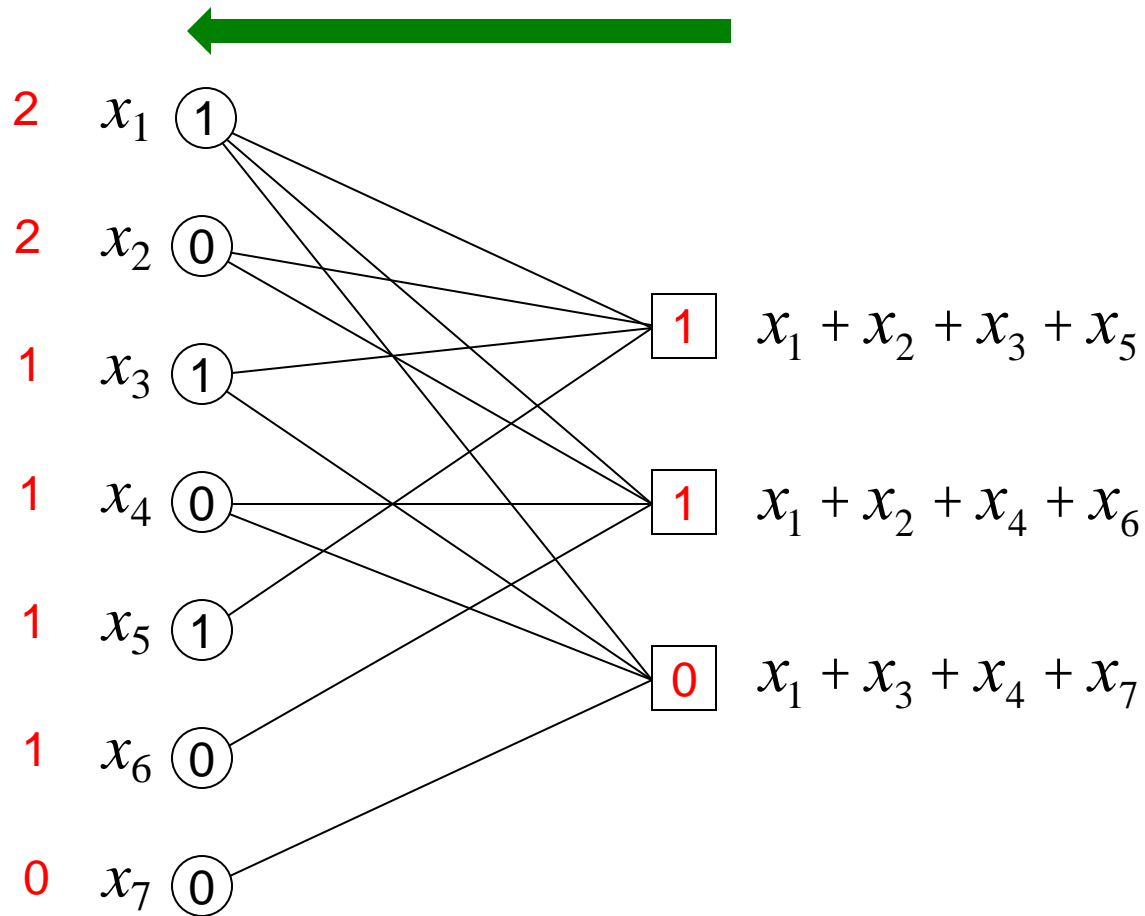
Tanner graph



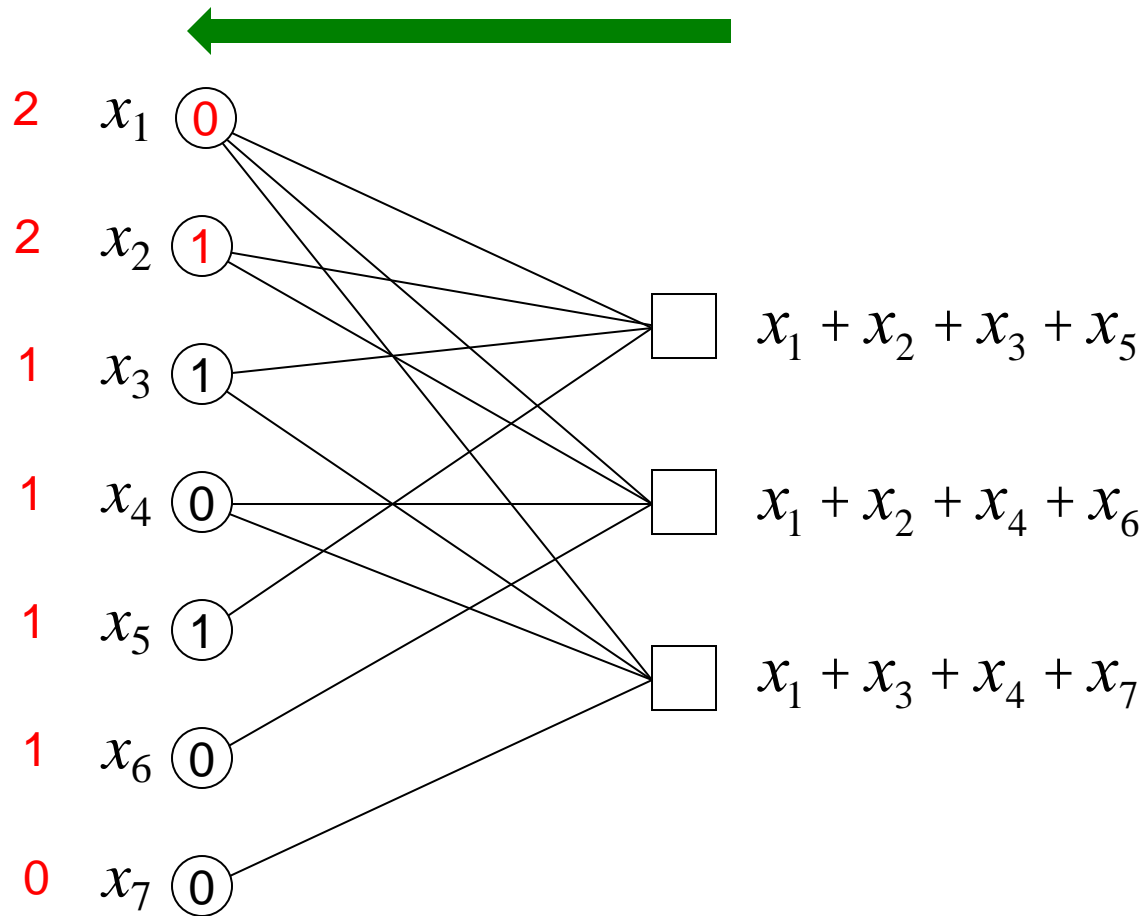
Received word



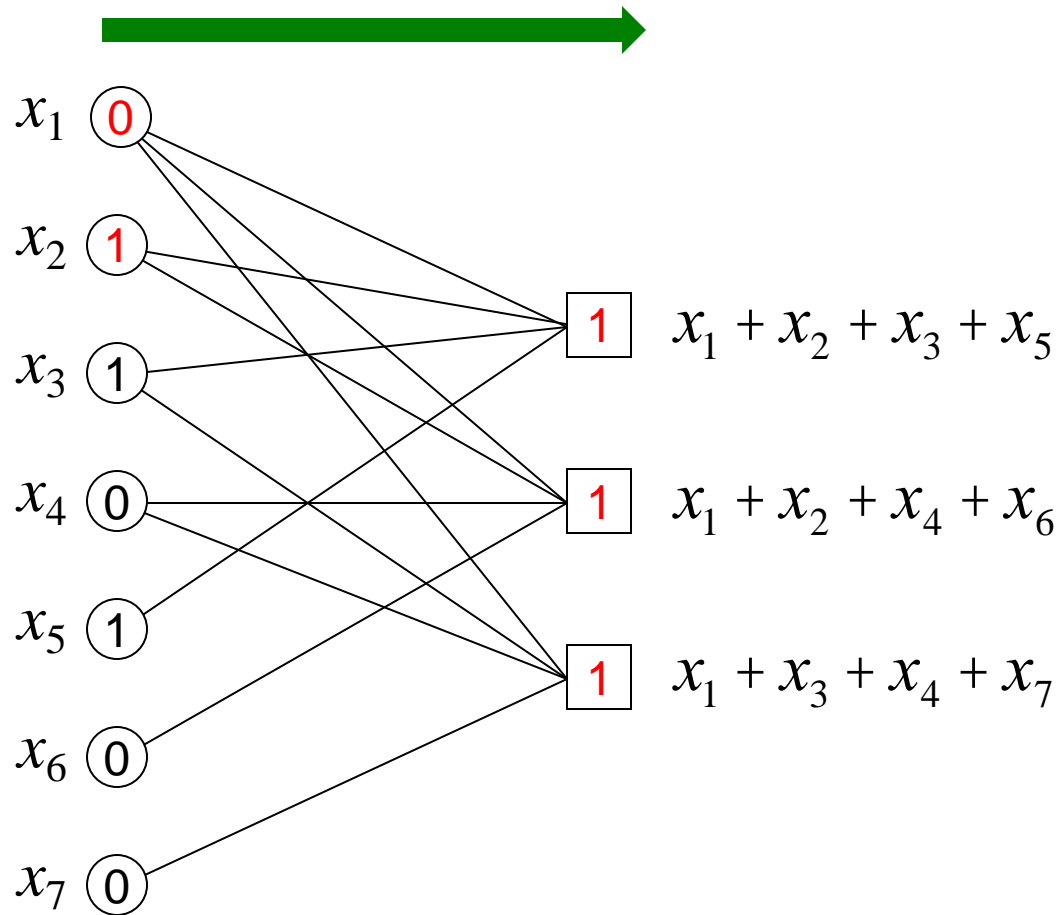
Compute checks



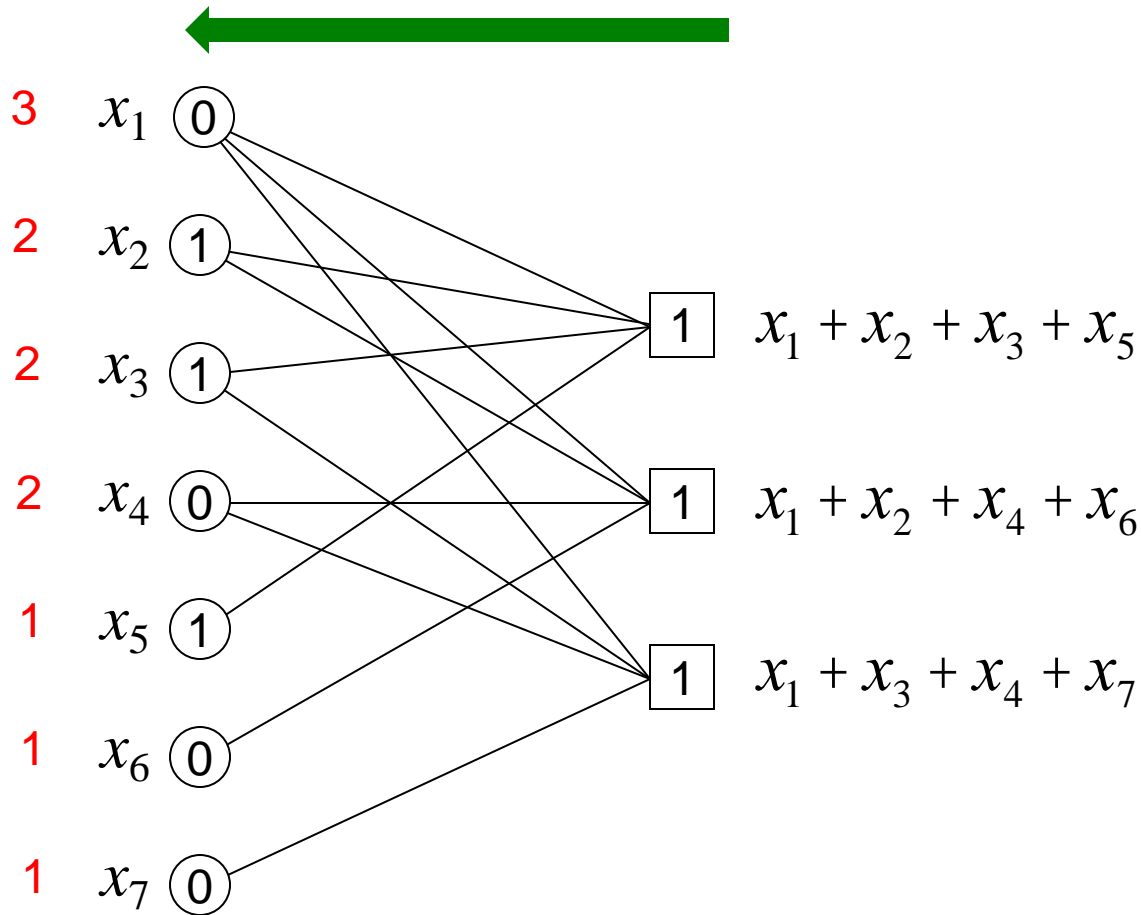
Count number of unsatisfied checks for each code symbol



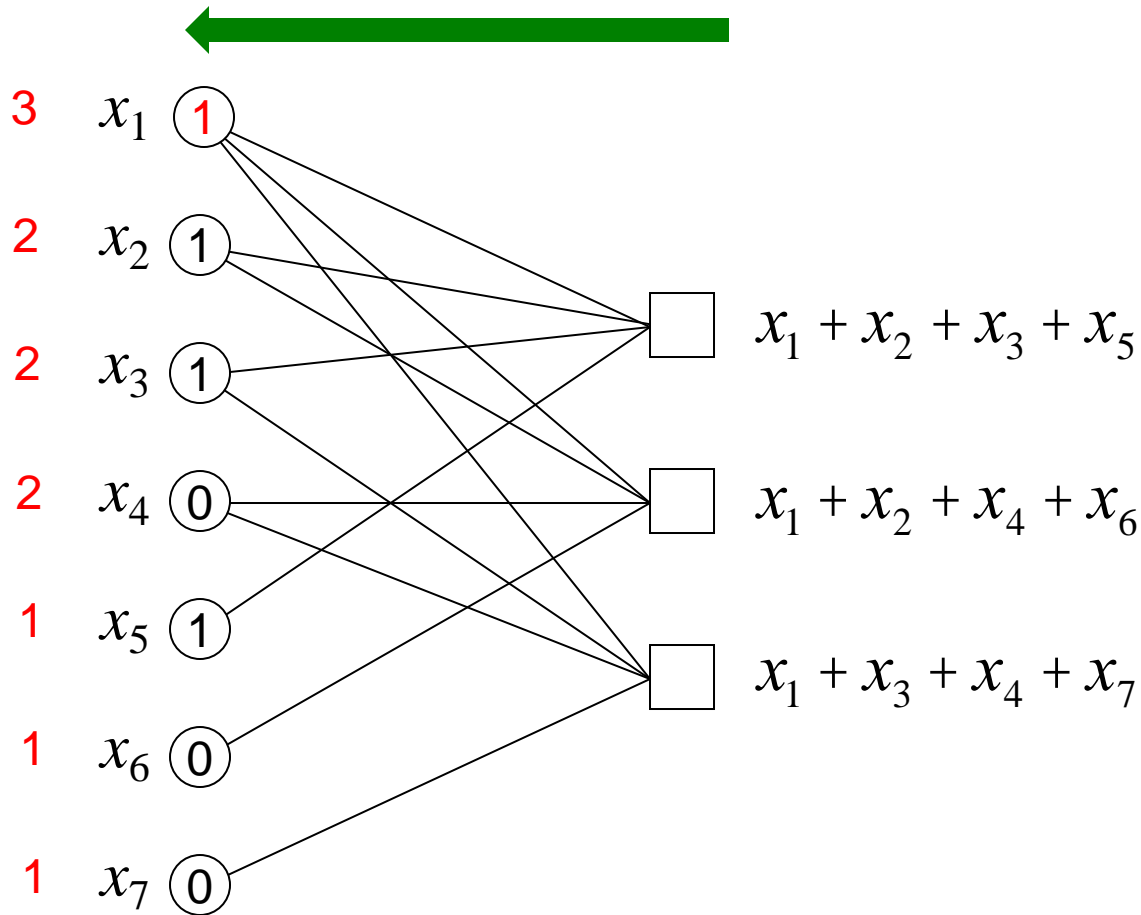
Flip worst offenders



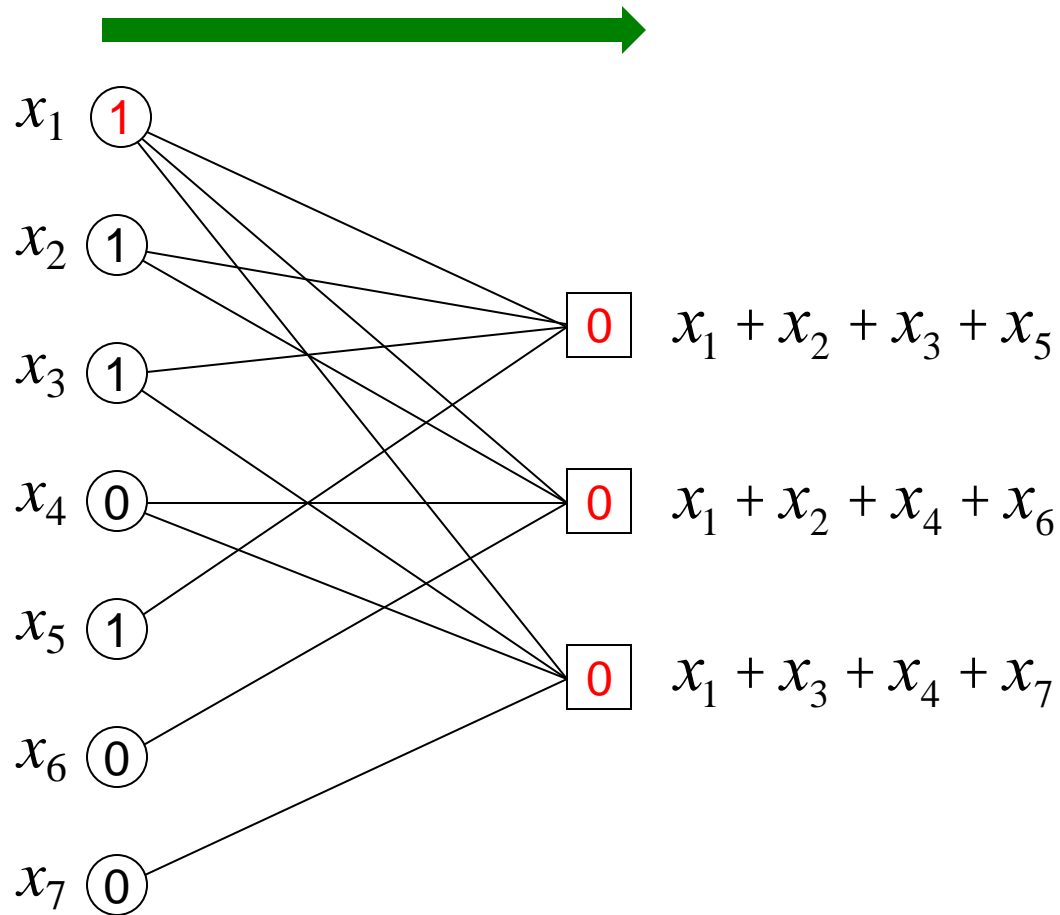
Recompute checks



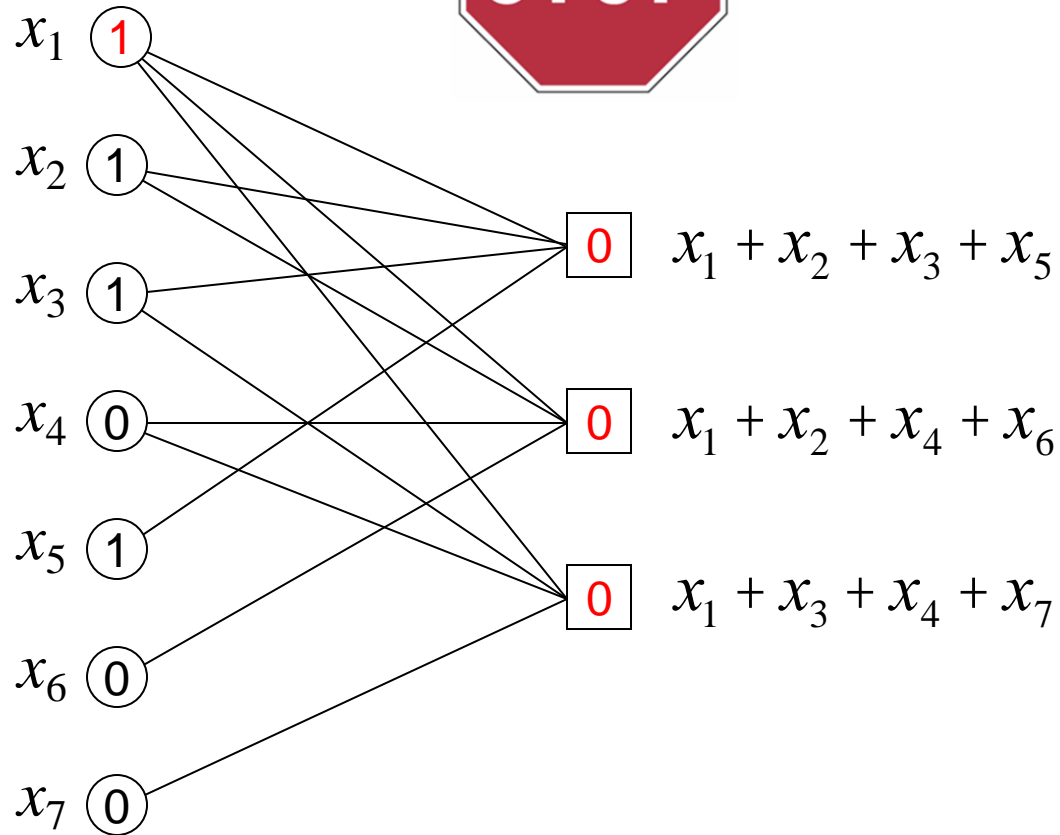
Count number of unsatisfied checks for each code symbol



Flip worst offenders



Recompute checks



Stop when all checks satisfied

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