Concrete Mathematics Class Note

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September 29, 2017

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$$f(j) = \alpha_j,\ for\ 1 \leqslant j < d \tag{1}$$
$$f(dn + j) = cf(n) + \beta_j,\ for\ 0 \leqslant j < d\ and\ n \geqslant 1 \tag{2}$$

get

$$f((b_m b_{m-1} ... b_1 b_0)_d) = (\alpha_{b_m} \beta_{b_{m-1}} \beta_{b_{m-2}} ... \beta_{b_1} \beta_{b_0})_c \tag{3}$$