Input: $X=x_1,x_2,...,x_N$ $x_i \in \{0,1\}$ Output: $Y=y_1,y_2,...,y_N$ $y_i \in \{0,1\}$ where 0,1 repeat at least L times and $\sum_{i=1}^N (x_i-y_i)^2$ becomes minimum

Consider e(i,j,v) $1 \le i \le N$, $1 \le j \le L$, $v \in \{0,1\}$ e(i,j,v) is the error value when the value v continues j times at position i. Here,

$$e(1,1,v) = (x_1-v)^2$$

$$e(i,1,v) = \min_k e(i-1,L+k,1-v) + (x_i-v)^2$$

$$e(i,j,v) = e(i-1,j-1,v) + (x_i-v)^2$$