82 The majority logic Lecoding algorithm is as follows -|FOR l=r to 0 lo FOR each A C & 1, ..., m3, |A| = 1 10: $m_{A}(b) = \sum_{X_{A}=h}^{y} y_{X_{A}=h}$ 3 Xq...m2 \A = b cnt [ma(b)] += 1. ma = argmax cnt het Mr = & MAXA
ACEI...A)
1A1=1 For CEF2 do yc -= Mr/c 10 Output & MAXA The outer loops in lives 1,2 run & (m) = k times. Re loop in lile 3 runs 2 m-l fires. The summation in line 4 takes 2 operations. Thus these require O(2m) operations. Live 7 requires (m) operations.

... total of & (m) - 10 operations. E (m) = k operations.

Line 8 iterates
$$O(2^m)$$
 times. Evaluating

Mr at each position requires $\binom{m}{L}$ operations.

 $O(2^m) = k \cdot 2^m$ in total.

Thus total time = $O(k \cdot 2^m) + O(k) + O(k)$

Thus total time =
$$O(k.2^m) + O(k) + O(k.2^m)$$

Thus total time =
$$O(K \cdot 2^m) + O(k) + O(k^m)$$
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