

input: N : Set of n critical positions

M : Set of the m least reliable positions

hard_decisions[K]: Hard decision bits

output: result_valid : bool

flip_pattern : bit vector of size $n + m$

for all 2^{n+m} *flip-combinations* $\in N \cup M$ **do**

result_valid = false

tmp = hard_decisions

flip_positions(tmp)

result_valid = check_crc(tmp)

if result_valid == true **then**

flip_pattern = *current pattern*

break

end if

end for

return result_valid, flip_pattern