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Legenda vstupních signálů:	Identifikace výstupních signálů:
– K : KEY	– Mealyho výstupy: FSM_LCD_WR, FSM_LCD_CLR
– CO : CNT_OF	– Moorovy výstupy: FSM_MX_LCD, FSM_MX_MEM, FSM_CNT_CE

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graph TD
    Start([READ_FIRST_NUMBER/0XX]) -- "CO=X;K=2/10" --> C1_0([CODE_1/0XX])
    C1_0 -- "CO=X;K=0/10" --> C1_1([CODE1_2/0XX])
    C1_1 -- "CO=X;K<>1,#/10" --> C1_2([CODE1_3/0XX])
    C1_2 -- "CO=X;K=1/10" --> C1_3([CODE1_3/0XX])
    C1_3 -- "CO=X;K<>1,#/10" --> C1_4([CODE1_4/0XX])
    C1_4 -- "CO=X;K=1/10" --> C1_5([CODE1_5/0XX])
    C1_5 -- "CO=X;K=3/10" --> C1_6([CODE1_6/0XX])
    C1_6 -- "CO=X;K<>3,#/10" --> C1_7([CODE1_7/0XX])
    C1_7 -- "CO=X;K=0/10" --> C1_8([CODE1_7/0XX])
    C1_8 -- "CO=X;K=5/10" --> C1_9([CODE1_8/0XX])
    C1_9 -- "CO=X;K=0/10" --> C1_10([CODE1_8/0XX])
    C1_10 -- "CO=X;K=9/10" --> C1_11([CODE1_9/0XX])
    C1_11 -- "CO=X;K=9/10" --> C1_12([CODE1_9/0XX])
    C1_12 -- "CO=X;K<>2,#/10" --> C1_13([CODE1_10/0XX])
    C1_13 -- "CO=X;K=2/10" --> C1_14([CODE1_10/0XX])
    C1_14 -- "CO=X;K<>#/10" --> C1_15([CODE1_10/0XX])
    
    C1_15 -- "CO=X;K=#/01" --> C1_16([CODE_WRONG/0XX])
    C1_16 -- "CO=X;K<>#/10" --> C1_17([CODE_WRONG/0XX])
    C1_17 -- "CO=X;K=#/01" --> C1_18([PRINT_MESSAGE_ACCESS_DENIED/101])
    
    Start -- "CO=X;K=#/01" --> C2_0([CODE2_2/0XX])
    C2_0 -- "CO=X;K=3/10" --> C2_1([CODE2_3/0XX])
    C2_1 -- "CO=X;K=4/10" --> C2_2([CODE2_3/0XX])
    C2_2 -- "CO=X;K<>4,#/10" --> C2_3([CODE2_4/0XX])
    C2_3 -- "CO=X;K=6/10" --> C2_4([CODE2_4/0XX])
    C2_4 -- "CO=X;K<>6,#/10" --> C2_5([CODE2_5/0XX])
    C2_5 -- "CO=X;K=5/10" --> C2_6([CODE2_5/0XX])
    C2_6 -- "CO=X;K=2/10" --> C2_7([CODE2_6/0XX])
    C2_7 -- "CO=X;K<>2,#/10" --> C2_8([CODE2_7/0XX])
    C2_8 -- "CO=X;K=2/10" --> C2_9([CODE2_7/0XX])
    C2_9 -- "CO=X;K=6/10" --> C2_10([CODE2_8/0XX])
    C2_10 -- "CO=X;K<>6,#/10" --> C2_11([CODE2_9/0XX])
    C2_11 -- "CO=X;K=0/10" --> C2_12([CODE2_8/0XX])
    C2_12 -- "CO=X;K=8/10" --> C2_13([CODE2_9/0XX])
    C2_13 -- "CO=X;K<>8,#/10" --> C2_14([CODE2_10/0XX])
    C2_14 -- "CO=X;K=8/10" --> C2_15([CODE2_10/0XX])
    C2_15 -- "CO=X;K<>#/10" --> C2_16([CODE2_10/0XX])
    
    C2_16 -- "CO=X;K=#/01" --> C2_17([CODE_WRONG/0XX])
    C2_17 -- "CO=X;K<>#/10" --> C2_18([CODE_WRONG/0XX])
    C2_18 -- "CO=X;K=#/01" --> C2_19([PRINT_MESSAGE_ACCESS_DENIED/101])
    
    C2_19 -- "CO=X;K=#/01" --> C2_20([PRINT_MESSAGE_ACCESS_ALLOWED/111])
    C2_20 -- "CO=0;K=X/10" --> C2_21([PRINT_MESSAGE_ACCESS_ALLOWED/111])
    C2_21 -- "CO=X;K=X/00" --> C2_22([MESSAGE_PRINTED/XXX])
    C2_22 -- "CO=X;K<>#/00" --> C2_23([MESSAGE_PRINTED/XXX])
    C2_23 -- "CO=X;K=#/01" --> C2_24([PRINT_MESSAGE_ACCESS_ALLOWED/111])
  
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