```
function LEDBarSetup():
    PxDIR |= BITx
    PxDIR |= BITx
    PxDIR |= BITx
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    PxDIR |= BITx
    PxDIR |= BITx
    PxDIR |= BITx
    PxDIR |= BITx
    PxDIR |= BITx
    PxDIR |= BITx

function patternSelect(int pattern_num):
    if pattern_num == 0:
        TBxCCR1 = a
        TByCCR1 = b
        TBzCCR1 = c
    else if pattern_num == 1:
        TBxCCR1 = a
        TByCCR1 = b
        TBzCCR1 = c
    else if pattern_num == 2:
        TBxCCR1 = a
        TByCCR1 = b
        TBzCCR1 = c
    else if pattern_num == 3:
        TBxCCR1 = a
        TByCCR1 = b
        TBzCCR1 = c
```