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                                      toupr.s
/**
* toupr.s
* PARAMETERS: X0 (INPUT STRING OF SIZE N)
* OUTPUT : X0 (STRING, CONVERTED)
* The purpose of this function is to convert all lowercase letters
* to uppercase.
* ALL REGISTERS PRESERVED EXCEPT XO
.t.ext.
.global toupr
   toupr:
       stp x19, x20, [sp, -16]! // pushing x19 and x20 to stack pointer
       mov x19, #-1
                        // setting increment
       b toUprLoop
                               // branch to 'toUprLoop'
   toUprConvert:
       sub w20, w20, #32
                               // converts the char from lowercase to uppercase
       strb w20, [x0, x19]
                               // storing byte in w0 string
   toUprLoop:
       add x19, x19, #1
                               // x19++
       ldrb w20, [x0, x19]
                               // load byte from str and post increment
       cmp w20, #0
                               // compare loaded byte and null
       b.eq toUprEnd
                               // if null, goto 'toUprEnd'
       cmp w20, #'a'
                               // if char is less than 'a'...
       b.lt toUprLoop
                               // then return to toUprLoop
       cmp w20, #'z'
                               // else, if w20 is less than 'z'
       b.lt toUprConvert
                               // you're lowercase, so go to the convert label
       b toUprLoop
                               // you're one of the few weird chars, go back to
upr :)
   toUprEnd:
       ldp x19, x20, [sp], 16 // popping x19 and x20 from stack
                               // return to caller
       ret lr
```