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// Class: CS 5040
// Term: Summer 2019
// Instructor: Dr. Haddad
// Assignment: 1
// IDE: Atom

// invoke recursive helper method
METHOD MaxRecursively (array)
BEGIN
        index ← 9                       // assume array of size 10 elements
        READ array                      // read array of size 10 and store in variable array
        currentMax ← array[index]    // assumes last value in array is the max
        CALL MaxRecursively (array, index, currentMax)
END MaxRecursively

// recursive helper method which prints largest number
METHOD MaxRecursively (array, index, currentMax)
BEGIN
        IF (index < 0) THEN
                PRINT currentMax
        ELSE
                IF (array[index] >  currentMax) THEN
                        currentMax ← array[index]
                ENDIF
                CALL MaxRecursively (array, index - 1, currentMax)
        END IF
END MaxRecursively
```