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//
// ProcessData.swift
// SimulatedPageAllocation
//
// Created by Brandon Baars on 4/3/18.
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//
import Foundation
class ProcessData {
    var numOfDataPages: Int
    var numOfCodePages: Int
    var codePageTable = [Int:Frame]()
    var dataPageTable = [Int:Frame]()
    var isTerminated: Bool
    var processNumber: Int
    var codeLength: Int
    var dataLength: Int
    // return our data in a readable string format
    public func toString() -> String {
        return "Loading \((processNumber)\) into RAM: code=\((codeLength)\) (\
         (numOfCodePages) pages) data=\(dataLength) (\((numOfDataPages)) pages)"
    }
    public func addFrameToPageTable(withFrame frame: Frame) {
        // adds the associated frame to our Page Table when it's loaded into
        if frame.type == .code {
            codePageTable[frame.index] = frame
            print("Loading Code frame from index: ", frame.index)
        } else {
            dataPageTable[frame.index] = frame
             print("Loading Data frame from index: ", frame.index)
        }
    }
    public func removeFromRAM() {
        // Removes the Page Tables of our Code/Data
        self.codePageTable.removeAll()
        self.dataPageTable.removeAll()
    }
    public func queueProcessForRAM(withFrameSize size: Int) {
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// Queue process for loading into RAM by finding the number of pages
    // they will need
    let codePages = Int(ceil(Double(self.codeLength)/Double(size)))
    let dataPages = Int(ceil(Double(self.dataLength)/Double(size)))
    self.numOfCodePages = codePages
    self.numOfDataPages = dataPages
}
init(numOfDataPages: Int, numOfCodePages: Int, codePageTable: [Int:Frame],
 dataPageTable: [Int:Frame], isTerminated: Bool, processNumber: Int,
 codeLength: Int, dataLength: Int) {
    self.numOfDataPages = numOfDataPages
    self.numOfCodePages = numOfCodePages
    self.codePageTable = codePageTable
    self.dataPageTable = dataPageTable
    self.isTerminated = isTerminated
    self.processNumber = processNumber
    self.codeLength = codeLength
    self.dataLength = dataLength
}
```

}