```
start
    Declarations
        string roomAName
        num roomAValue
        string roomBName
        num roomBValue
        string bothFilesDone = "N"
        num HIGH_VALUE = 999999
        InputFile roomAFile
        InputFile roomBFile
        OutputFile mergedFile #Output not Input
    getReady()
    while bothFilesDone = "N"
        detailLoop()
    endwhile
    allDone()
stop

getReady()
    open roomAFile "roomAFile.dat"
    open roomBFile "roomBFile.dat"
    open mergedFile "mergedFile.dat"
    readA()
    readB()
    checkBoth()
return

readA()
    input roomAName, roomAValue from roomAFile
    if eof then
        roomAValue = HIGH_VALUE
    endif
return

readB()
    input roomBName, roomBValue from roomBFile
    if eof then
        roomBValue = HIGH_VALUE
    endif
return

checkBoth()
    if roomAValue = HIGH_VALUE AND roomBValue = HIGH_VALUE then
        bothFilesDone = "Y"
    endif
return

detailLoop()
    if roomAValue > roomBValue then
        output roomAName, roomAValue to mergedFile #changed room b to room a
        readA()
    else
        output roomBName, roomBValue to mergedFile #changed room a to room b
        readB()
    endif
    checkBoth() #Added checkBoth function to prevent infinite detailLoop
return

allDone()
    close roomAFile
    close roomBFile
    close mergedFile #typo
return
```