// The two senior class homerooms at Littleville High School

// are having a fundraising drive for the prom. Each time a student

// solicits a contribution, a record is created with the

// student's name and the value. Two files have been created for

// Homeroom A and Homeroom B. Each file is sorted in contribution

// value order from highest to lowest. This program merges the two files.

start

Declarations

string roomAName

num roomAValue

string roomBName

num roomBValue

string bothFilesDone = "N"

num HIGH\_VALUE = 999999

InputFile roomAFile

InputFile roomBFile

InputFile mergedFile

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 roomBName, roomBValue to mergedFile

readA()

else

output roomAName, roomAValue to mergedFile

readB()

endif

return

allDone()

close roomAFile

close roomBFile

close mergeFile

return