// Cooper College maintains a master file of students and credits

// earned. Each semester the master is updated with a transaction

// file that contains credits earned during the semester.

// Each file is sorted in Student ID number order.

start

Declarations

num masterID

string masterName

num masterCredits

num transID

num transCredits

string bothDone = "N"

num HIGH\_VALUE = 999999

InputFile master

InputFile trans

OutputFile newMaster

getReady()

while bothDone = "N"

detailLoop()

endwhile

allDone()

stop

getReady()

open master "studentFile.dat"

open trans "semesterCredits.dat"

open newMaster "updatedStudentFile.dat"

readMaster()

readTrans()

checkBoth()

return

readMaster()

input masterID, masterName, masterCredits from master

if eof then

masterID = HIGH\_VALUE

endif

return

readTrans()

input transID, transCredits from trans

if eof then

transID = HIGH\_VALUE

endif

return

checkBoth()

if masterID = HIGH\_VALUE AND transID = HIGH\_VALUE then

bothDone = "Y"

endif

return

detailLoop()

if masterID = transID then

match()

else

if masterID > transID then

noMasterForTrans()

else

noTransForMaster()

endif

endif

return

match()

masterCredits = transCredits

output masterID, masterName, masterCredits to newMaster

readMaster()

readTrans()

return

noMasterForTrans()

output "No master file record matches transaction ", masterID

readTrans()

return

noTransForMaster()

output masterID, masterName, masterCredits to newMaster

return

allDone()

close master

close trans

close newMaster

return