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#!/usr/bin/bash

#This script will break a file up into equal parts
#and it will take the last (mod) lines as well

#It takes two arguments: filename splitvalue
#for example: splitfile fileone 4
#the above example splits the file fileone into 4 parts

#initialize variables

count=1
initblock=1
block=0

if [ $# -eq 0 ]
then
    echo "usage: splitfile <filename> <splittingfactor>"
    exit
fi
fname=$1
parts=$2

echo "calculating number of lines"
lines=`wc -l $fname|awk '{print $1}'`
lastblock=$(( $lines % $parts ))

echo "calculating parts"
block=$(( $lines / $parts ))

fixed=$block

while [ $count -le $parts ]
do
    block=$(( ${count} * ${fixed} ))
    echo splitting to ${fname}_${count} ${fixed} lines
    > ${fname}_${count}
    sed -n ${initblock},${block}p ${fname} >> ${fname}_${count}
    initblock=$block
    initblock=$(( ${initblock} + 1 ))
    ((count++))
done

if [ $lastblock == 0 ]
then
    echo done
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    exit
else
    initblock=$block
    lastline=$(( $initblock+$lastblock ))
    initblock=$(( ${initblock} + 1 ))
    > ${fname}_${count}
    echo splitting to ${fname}_${count} ${lastblock} lines
    sed -n ${initblock},${lastline}p ${fname} >> ${fname}_${count}
fi
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