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#!/bin/bash
#/* ***** Coursera/lab_bisect.sh ***** */
#/*
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# *
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# *
# */
#!/bin/bash

# initialize the repository and put our name and email in the .config file

echo -e "\n\n*****      CREATING THE REPOSITORY AND CONFIGURING IT\n\n"

rm -rf git-test ; mkdir git-test ; cd git-test
git init
git config user.name "A Smart Guy"
git config user.email "asmartguy@linux.com"

echo -e "\n\n*****      CREATING A NUMBER OF  FILES AND ADDING"
echo -e "                        THEM TO THE PROJECT AND COMMITTING\n\n"

n=0
while [ $n -lt 64 ] ; do
    n=$((n+1))
    file=file$n
    echo file > $file
    if [ "$n" == "19" ] ; then
        echo BAD >> $file
    fi
    git add $file
    git commit $file -m"$file"
    git tag $file
    echo I added and committed $file
done

echo -e "\n\n*****      I PUT THE BAD LINE IN file19\n\n"

echo -e "\n\n*****      STARTING THE BISCETION\n\n"

git bisect start
git bisect bad
git bisect good file1

echo -e "\n\n*****      SEARCHING FOR THE BAD FILE\n\n"

echo -e "\n\n*****      DOING TH BISECTION MANUALLY\n\n"

over=0
while [ "$over" == "0" ] ; do
    if [ "$(grep BAD file*)" == "" ] ; then
        git bisect good | tee gitout
    else
        git bisect bad | tee gitout
    fi

    if [ "$(grep 'revisions left' gitout)" == "" ] ; then
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        over=1
        echo "***** FOUND THE BUG!"
    fi
done

echo -e "\n\n***** SETTING UP A TESTING SCRIPT\n\n"

cat <<EOF >> my_script.sh
#!/bin/bash

if [ "$(grep BAD file*)" == "" ] ; then
    exit 0
fi
exit 1
EOF
chmod +x my_script.sh

# reset to original state

git reset

git bisect start
git bisect bad  file64
git bisect good file1

# do automated script

git bisect run ./my_script.sh

# check log

git bisect log
```