**(PresidentsMDrvr)**

Create array myPresidents of type Presidents[max]

Set nElements to 0

//end constructor

Insert(int number, String name, String code, int term, String party, String state)

Insert variables into an index

Increment index

//end insert

BubbleSort()

Set out and in as int

for (set out to nElements – 1, if out is greater than 1 then decrement out) //outer loop

for (set in to 0, if in is less than out, increment in) //inner loop

if (myPresident index in greater than index in+1)

swap them

//end Bubble Sort

Swap()

Set hold to “in” index //Swaps elements

Insert “in1” index value into “in” index

Set “hold” to “in1” index

//end Swap

sequentialSearch()

try

declare sCurrentline as string

use bufferedReader to load party.txt

while(readline has a value)

set int hits to 0

for(set i to 0, if i is less than nElements then increment i)

if(sCurrentline equals the “get party” element in myPresident array)

increment hits

set first to sCurrentline

set second to “ “

if (hits is greater than 0)

set second to say “found”

else

set second to say “not found”

catch (IOException e)

print stack trace

finally

try

if(BufferedReader isn’t empty) close it

catch (IOException ex)

print stack trace

//end loop

sortByName()

sort myPresident array by name in ascending order

//end sortByName

myBinarySearch()

try

declare sCurrentline as string

use bufferedReader to load name.txt

while(readline has a value)

set int hits to 0

set item to sCurrentline

set first to 0

set last to nElements-1

set middle to (first + last)/2

set second to “ “

while (first is less than or equal to last)

if (myPresident [middle] equals item)

set second to “Found”

increment hits

break

else if( myPresident [middle] compared to item is less than 0)

set first to middle+1

increment hits

else

set last to middle-1

increment hits

set middle to (first + last)/2

if( first is greater than last)

set second to “Not Found”

Catch (IOException e)

Print stack trace

Finally

Try

If(BufferedReader not empty) then close

Catch (IOException ex)

Print stack trace

//end myBinarySearch

//end PresidentsMDrvr class

**(Presidents)**

Declare number and term as integer

Declare name, code, party and state as string

<Constructor> Presidents(int number, String name, String code, int term, String party, String state)

Set code to this.code

Set term to this.term

Set party to this.party

Set state to this.state

//end constructor

getNumber

return number

setNumber(int number)

Set number to this.number

getName

return name

setName(String name)

Set name to this.name

getCode

return code

setCode(String code)

Set code to this.code

getTerm

return term

setTerm(int term)

set term to this.term

getParty

return party

setParty(String party)

set party to this.party

getState

return state

setState(String state)

set state to this.state

//End getters and setters

toString()

return header for arrays

//end toString

compareTo(Presidents o)

set this.name.compareTo to last

return last