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\* 17 December 2018

\* COMP171-800RL

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**package** lab8;

**import** java.util.Scanner;

**public** **class** statesArray {

**static** Scanner *scanner* = **new** Scanner(System.***in***);

**public** **static** **void** main(String[] args) {

**int** correctStates1 = 0;

**int** correctStates2 = 0;

String userInput = "";

**final** **int** numberOfStates1 = 25;

**final** **int** numberOfStates2 = 25;

String capitals1 [][] = {

{"Alabama", "Montgomery"},

{"Alaska", "Juneau"},

{"Arizona", "Phoenix"},

{"Arkansas", "Little Rock"},

{"California", "Sacramento"},

{"Colorado", "Denver"},

{"Connecticut", "Hartford"},

{"Delaware", "Dover"},

{"Florida", "Tallahassee"},

{"Georgia", "Atlanta"},

{"Hawaii", "Honolulu"},

{"Idaho", "Boise"},

{"Illinois", "Springfield"},

{"Indiana", "Indianapolis"},

{"Iowa", "Des Moines"},

{"Kansas", "Topeka"},

{"Kentucky", "Frankfort"},

{"Louisiana", "Baton Rouge"},

{"Maine", "Augusta"},

{"Maryland", "Annapolis"},

{"Massachusetts", "Boston"},

{"Michigan", "Lansing"},

{"Minnesota", "Saint Paul"},

{"Mississippi", "Jackson"},

{"Missouri", "Jefferson City"},

};

String capitals2 [][] = {

{"Montana", "Helena"},

{"Nebraska", "Lincoln"},

{"Nevada", "Carson City"},

{"New Hampshire", "Concord"},

{"New Jersey", "Trenton"},

{"New York", "Albany"},

{"New Mexico", "Santa Fe"},

{"North Carolina", "Raleigh"},

{"North Dakota", "Bismarck"},

{"Ohio", "Columbus"},

{"Oklahoma", "Oklahoma City"},

{"Oregon", "Salem"},

{"Pennsylvania", "Harrisburg"},

{"Rhode Island", "Providence"},

{"South Carolina", "Columbia"},

{"South Dakota", "Pierre"},

{"Tennessee", "Nashville"},

{"Texas", "Austin"},

{"Utah", "Salt Lake City"},

{"Vermont", "Montpelier"},

{"Virginia", "Richmond"},

{"Washington", "Olympia"},

{"West Virginia", "Charleston"},

{"Wisconsin", "Madison"},

{"Wyoming", "Cheyenne"}

};

**int** index = 0;

**for**(index = 0; index < numberOfStates1; index++){

System.***out***.println("Enter the Capital of the State listed: " + capitals1[index][0]);

userInput = *scanner*.next();

**if**(capitals1[index][1].equals(userInput)) {

correctStates1++;

System.***out***.println("Yes that is the capital of " + capitals1[index][0] + ".");

}

**else** {

System.***out***.println("No that is not the capital of " + capitals1[index][0] + ".");

index++;

}

}

System.***out***.println("Let's take a break");

System.***out***.println("Please type 'Continue' when ready");

*scanner*.nextLine();

**if**(*scanner*.nextLine().equals("Continue")) {

**for**(index = 0; index < numberOfStates2; index++){

System.***out***.println("Enter the Capital of the State listed: " + capitals2[index][0]);

userInput = *scanner*.next();

**if**(capitals2[index][1].equals(userInput)) {

correctStates2++;

System.***out***.println("Yes that is the capital of " + capitals2[index][0] + ".");

}

**else** {

System.***out***.println("No that is not the capital of " + capitals1[index][0] + ".");

index++;

}

}

}

**else** {

System.***out***.println("End of game.");

}

//counts the number of correct guesses.

System.***out***.println("Total number of capitals answered correctly: " + correctStates1 + correctStates2 + ".");

index++;

**return**;

}

}