# PROBLEM SET 3

Name: Time

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Elena: 341

Thomas: 273

Hamilton: 278

Suzie: 329

Phil: 445

Matt: 402

Alex: 388

Emma: 275

John: 243

James: 334

Jane: 412

Emily: 393

Daniel: 299

Neda: 343

Aaron: 317

Kate: 265

Is the output printed from the code below:

**class** Marathon {

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

String[] names = {

"Elena", "Thomas", "Hamilton", "Suzie", "Phil", "Matt", "Alex",

"Emma", "John", "James", "Jane", "Emily", "Daniel", "Neda",

"Aaron", "Kate"

};

**int**[] times = {

341, 273, 278, 329, 445, 402, 388, 275, 243, 334, 412, 393, 299,

343, 317, 265

};

System.***out***.println("Name: Time");

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*");

**for** (**int** i = 0; i < names.length; i++) {

System.***out***.println(names[i] + ": " + times[i]);

}

}

}

# PROBLEM:

Find the fastest runner. Print the name and his/her time (in minutes).

Optional: Find the second fastest runner. Print the name and his/her time (in minutes)

# DIRECTIONS:

Write a method that takes as input an array of integers and returns the index corresponding to the lowest one.

Run this method on the array of times. Print out the name and time corresponding to the returned index.

OPTIONAL: Write a second method to find the second-best runner. The second method should use the first method to determine the best runner, and then loop through all values to find the second-best (second lowest) time.