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## Practical 5

A group of MIT friends decide to run the Boston Marathon. Their names and times (in minutes) are below:

Name Time (minutes)

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

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

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

```
Java > J Marathon.java > Run > main(String[])
1 public class Marathon {
2     public static void main(String[] args) {
3         String[] names = {"Elena", "Thomas", "Hamilton", "Suzie", "Phil", "Matt", "Alex", "Emma", "John", "James", "Jane", "Emily", "Daniel", "Neda", "Aaron", "Kate"};
4         int[] times = {341, 273, 278, 329, 445, 402, 388, 275, 243, 334, 412, 393, 299, 343, 317, 265};
5
6         int fastestIndex = 0;
7         int secondFastestIndex = -1;
8
9         for (int i = 1; i < times.length; i++) {
10             if (times[i] < times[fastestIndex]) {
11                 secondFastestIndex = fastestIndex;
12                 fastestIndex = i;
13             } else if (secondFastestIndex == -1 || times[i] < times[secondFastestIndex]) {
14                 secondFastestIndex = i;
15             }
16         }
17
18         System.out.println("Fastest runner: " + names[fastestIndex] + " - " + times[fastestIndex] + " minutes");
19         System.out.println("Second fastest runner: " + names[secondFastestIndex] + " - " + times[secondFastestIndex] + " minutes");
20     }
21 }
22
```

PROBLEMS 13 GITLENS PORTS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE

```
cd "/Users/sanketbanate/Desktop/coding/Java/" && javac Marathon.java && java Marathon
sanketbanate@Sankets-MacBook-Air coding % cd "/Users/sanketbanate/Desktop/coding/Java/" && javac Marathon.java && java Marathon
Fastest runner: John - 243 minutes
Second fastest runner: Kate - 265 minutes
sanketbanate@Sankets-MacBook-Air Java %
```

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