ACS-1904-W2024
Lab #2 Programming: 5000m times
Due by Friday, January 19 at 11:59 pm

- Include your name and student number in each file as a comment

Write a Java program named `TimesFor5000m` that stores and retrieves a list of speed skating Olympic hopefuls along with some of their most recent 5000m times. Declare, allocate and initialize parallel arrays with the following information (i.e., hardcore the data):

Include the following static methods:

- getSkaterIndex(…): searches the array of skater names and returns the index of the skater search key if found, returns -1 if the skater search key is not found.
- printNthTime(…): prints the nth time by each skater in the list if it exists.
- printTimes(…): prints the list of the times for one of the skaters in the list.
- Remember that the use of break is not allowed except in switch statements, while(true) or while(!done) are not allowed and you may use only Java class libraries that we have covered in 1903 or 1904.

Skater	5000m Times
Poel	628.54, 625.34, 628.49
Eskil	618.95, 628.62
Koss	603.73, 629.08, 612.12
Kulizhnikov	602.14, 619.69, 607.98, 613.47
Koolman	620.77, 604.39, 608.10, 618.36, 638.66
Roest	639.94, 630.45, 606.86, 639.44
Lunde	621.98, 613.47

a) Prompt the user to enter a skater's name and display the corresponding list of times. Inform the user if their input does not exist in the list. The skater's name should not be case-sensitive.

b) Prompt the user for *n* and display the *n*th time of each skater, if applicable. The program should continue to ask for a time number until the user enters 0. Your code must account for the possibility that the user will enter 0 as their first input in which case no nth times will be printed.

Sample output:

```
enter a skater name:
eskil
618.95, 628.62,

Enter the time you want to see.(1-7), 0 to quit
```

```
 4
 Time #4:
 Kulizhnikov: 613.47
 Koolman: 618.36
 Roest: 639.44

 Enter another time.(1-7), or 0 to quit
 2
 Time #2:
 Peol: 625.34
 Eskil: 628.62
 Koss: 629.08
 Kulizhnikov: 619.69
 Koolman: 604.39
 Roest: 630.45
 Lunde: 613.47

 Enter another time.(1-7), or 0 to quit
 0

end of program
```

Submit your Java class (`TimesFor5000m.java`).