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Beginner Java(JD521)

Formal Assesment 1

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Introduction

I need to make a program to ask for a name and surname and to remove spaces between the name and surname and to count the length of the name and surname and to populate the array with random numbers in the range of 10 to 50 and to Insertion sort the array and do a binary search to delete an element form the array and display all output's.

Program Content

Source Code

Java Utils Library Importing

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package dragonkiller;
import java.util.*;
/**
```

Name en surname store in variable

Take the whitespace away from the namesurname variable

And count the namesurname variable length

Print the length of the namesurname variable

And populate the array with PsuedoRandom numbers in array size is equals to the size of the NameSurname Variable

The Randomizing Method

The Insertion sort method

And the calling of the Insertion sort method and the binary search Method

The Binary Search Method.

```
static void KillerBinarySearch(int[] arrayDragon) {
   try{
      System.out.println("pls enter the key value to be search "
         + "for and killed(deleted) in the array");
   //above asking the user to input the element to be deleted from array
   for(int i = 0; i <arrayDragon.length;i++){</pre>
        int SearchIndex = Userinput.nextInt();
             arch = Arrays.binarySearch(arrayDragon, SearchIndex);/*
   searches for the specified value in the array to be killed(deleted)
   binary search
                 arch]=0;
  this deletes the specified value in the array to be killed(deleted)
   System.out.println("This is the killed value"+" "+SearchIndex+" "
         +"and this is the index of the killed value"+" "+End
   System.out.println(Arrays.toString(arrayDragon));//printing array
   }catch(Exception ex) {
      System.out.println(ex);
```

Command Prompt Compile and running Commands

Setting variable path for java

```
Command Prompt

E:\Collage\CTU\Formatives>cd Collage\CTU\Formatives\FA 1\DragonKiller

The system cannot find the path specified.

E:\Collage\CTU\Formatives>cd E:\Collage\CTU\Formatives\FA 1\DragonKiller

E:\Collage\CTU\Formatives\FA 1\DragonKiller>set path=C:\Program Files\Java\jdk1.8.0_121\bin

E:\Collage\CTU\Formatives\FA 1\DragonKiller>set path=C:\Program Files\Java\jdk1.8.0_241\bin

E:\Collage\CTU\Formatives\FA 1\DragonKiller>_
```

Changing directory to the .java file

```
E:\Collage\CTU\Formatives>cd Collage\CTU\Formatives\FA 1\DragonKiller
The system cannot find the path specified.

E:\Collage\CTU\Formatives>cd E:\Collage\CTU\Formatives\FA 1\DragonKiller

E:\Collage\CTU\Formatives\FA 1\DragonKiller>set path=C:\Program Files\Java\jdk1.8.0_121\bin

E:\Collage\CTU\Formatives\FA 1\DragonKiller>set path=C:\Program Files\Java\jdk1.8.0_241\bin

E:\Collage\CTU\Formatives\FA 1\DragonKiller>javac DragonKiller\.java
javac: file not found: DragonKiller\.java
Usage: javac <options> <source files>
use -help for a list of possible options

E:\Collage\CTU\Formatives\FA 1\DragonKiller>cd E:\Collage\CTU\Formatives\FA 1\DragonKiller\src\dragonkiller

E:\Collage\CTU\Formatives\FA 1\DragonKiller>cd E:\Collage\CTU\Formatives\FA 1\DragonKiller\src\dragonkiller
```

Compiling through Command Prompt with javac

```
E:\Collage\CTU\Formatives\FA 1\DragonKiller\src\dragonkiller>javac DragonKiller.java
E:\Collage\CTU\Formatives\FA 1\DragonKiller\src\dragonkiller>
```

Running the program through Command Prompt

```
Microsoft Windows [Version 10.0.17763.973]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Windows\system32>java -jar "E:\Collage\CTU\Formatives\FA 1\DragonKiller\dist\DragonKiller.jar"

Please enter your name and surname.
mike lud
mike lud
mike lud
mikie lud
mikie is the length of the string.7

This is the psuedorandom generated number 44 And in the index of 0 array.
This is the psuedorandom generated number 26 And in the index of 1 array.
This is the psuedorandom generated number 10 And in the index of 3 array.
This is the psuedorandom generated number 10 And in the index of 4 array.
This is the psuedorandom generated number 28 And in the index of 5 array.
This is the psuedorandom generated number 28 And in the index of 5 array.
This is the psuedorandom generated number 28 And in the index of 5 array.
This is the psuedorandom generated number 12 And in the index of 6 array.
This is the psuedorandom generated number 12 And in the index of 5 array.
This is the psuedorandom generated number 12 And in the index of 5 array.
This is the psuedorandom generated number 10 array.
This is the
```

```
C:\Windows\system32>java -jar "E:\Collage\CTU\Formatives\FA 1\DragonKiller\dist\DragonKiller.jar"
Please enter your name and surname.
mike lud
mike lud
mikelud
This is the length of the string.7
```

```
This is the psuedorandom generated number 44 And in the index of 0 array.
This is the psuedorandom generated number 26 And in the index of 1 array.
This is the psuedorandom generated number 46 And in the index of 2 array.
This is the psuedorandom generated number 10 And in the index of 3 array.
This is the psuedorandom generated number 16 And in the index of 4 array.
This is the psuedorandom generated number 28 And in the index of 5 array.
This is the psuedorandom generated number 12 And in the index of 6 array.
```

```
this below is the sorted array
[10, 12, 16, 26, 28, 44, 46]
pls enter the key value to be search for and killed(deleted) in the array
```

```
12
This is the killed value 12 and this is the index of the killed value 1
[10, 0, 16, 26, 28, 44, 46]
```

Conclusion:

There for I have made a program that asks the user for a name and surname and stores the value in a variable and the program removes the space between name and surname. Instantiate an array with the NewNameSurname Variable's Length and populates the array with PsuedoRandom Number's

It will display them with the value stored in the array and the corresponding index in array and an insertion sort is called to sort array from the smallest to biggest values for the binary search method else the binary search will not Work and a binary search is called to kill a certain value in the array or delete a certain value in the array.

BibloGraphy:

Websites:

GeeksforGeek: https://www.geeksforgeeks.org/

And Javapoint : https://www.javatpoint.com/

Books:

Java_ A Beginner's Guide, Eighth Edition

Appendix

No Extra files or media.