JAVA PROGRAMMING COURSE

EXERCISE

VARARGS IN JAVA



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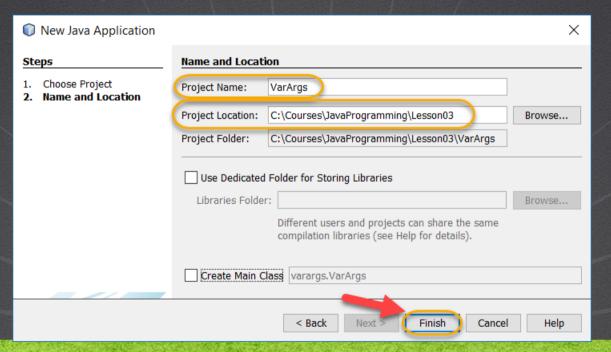
EXERCISE OBJECTIVE

Create a program to implement the use of variable arguments in Java (varargs). At the end we should observe the following:

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
                                        NarArgsManyParameters.iava
                                        Source History 🚱 🖫 - 🖫 - 🔩 🔁 👺 🖶 🖫 🖓 😓 🖭 🖭 🔘 🔲 🕮 🚅
  Source Packages
                                               package test;
         VarArgsForEach.iava
                                               public class VarArgsManyParameters
         VarArgsManyParameters.iava
         VarArgsTest.iava
                                                   public static void main(String[] args)
  il Libraries
                                                       printManyArguments("John", true, 15,20,14);
                                                   public static void printManyArguments(String name, boolean valid, int... numbers) {
                                                       System.out.println("Name: " + name);
                                                       System.out.println("Valid: " + valid);
                                                       //We use the forEach loop
                                         17
                                                       for(int numero : numbers) {
                                                           System.out.println("The number is: " + numero );
                                         ★ test.VarArgsManyParameters >
                                        Output - VarArgs (run) X
                                             Name: John
main - Navigator X
                                             The number is: 15
                 <p
                                             The number is: 20
     main(String[] args)
                                             BUILD SUCCESSFUL (total time: 0 seconds)
```

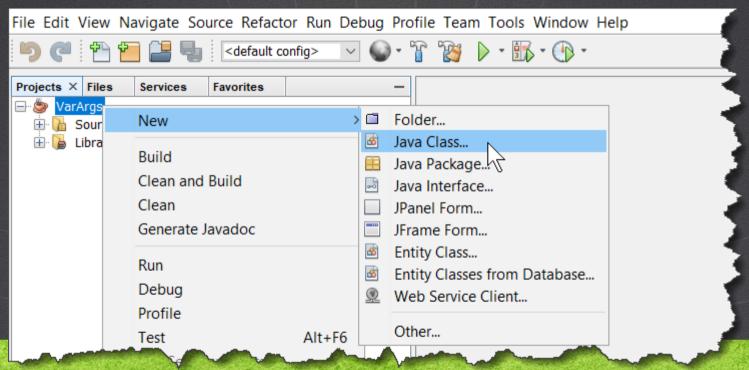
1. CREATE A NEW PROJECT

Create a new project:



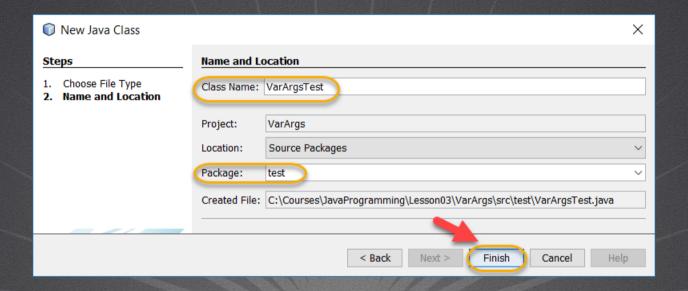
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Create a new Java class:



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Create a new Java class:



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3. MODIFY THE CODE

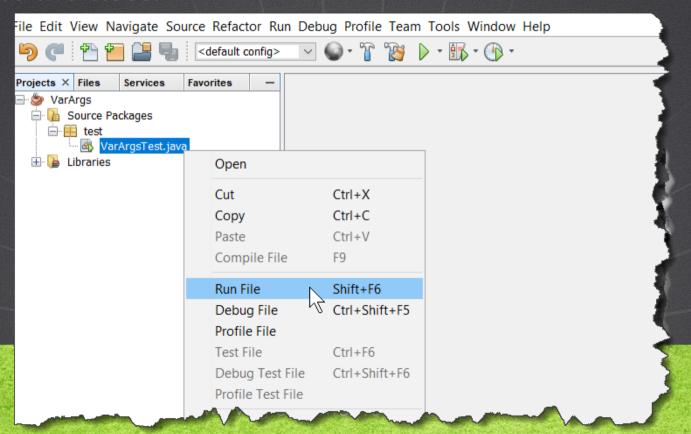
VarArgsTest.java:

```
package test;
public class VarArgsTest {
    public static void main(String[] args) {
        //Print several numbers
        printNumbers(15,20,3,61,75,18,10);
    public static void printNumbers(int... numbers){
        //We go through each element of the array
        int element:
        System.out.println("Number of elements:" + numbers.length);
        for(int i=0; i < numbers.length; i++){</pre>
            element = numbers[i];
            System.out.println("Element: " + element);
```

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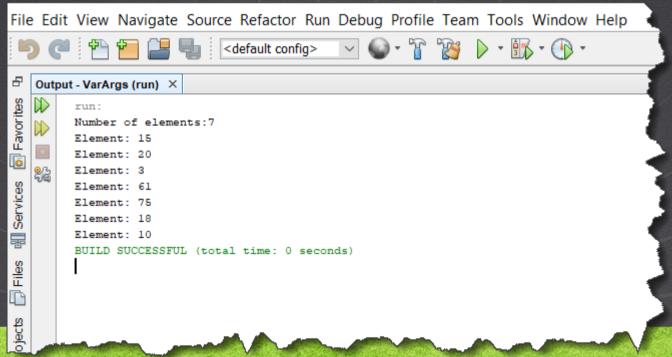
4. EXECUTE THE CLASS

Execute the class:



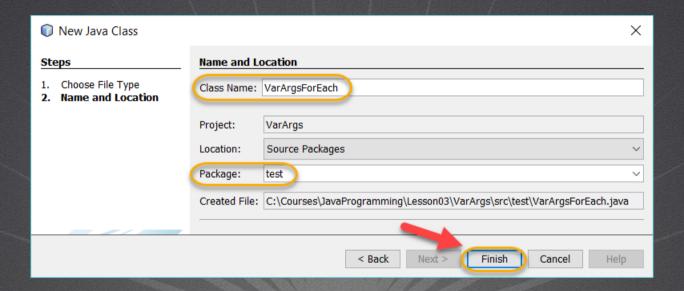
4. EXECUTE THE CLASS (CONT)

The result is as follows:



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Create a new Java class:



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6. MODIFY THE CODE

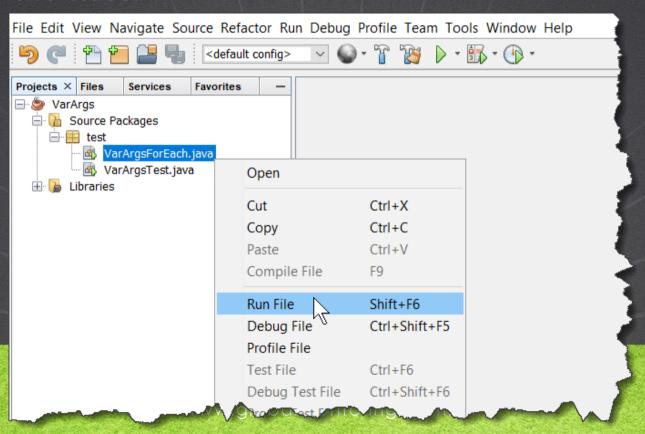
VarArgsForEach.java:

```
package test;
public class VarArgsForEach {
    public static void main(String[] args) {
        printNumbersForEach(15, 20, 3, 61, 75, 18, 10);
    public static void printNumbersForEach(int... numbers){
        System.out.println("Number of elements: " + numbers.length);
        //We will use a forEach loop instead of a normal for loop
        for(int number: numbers){
            System.out.println("The number is:" + number );
```

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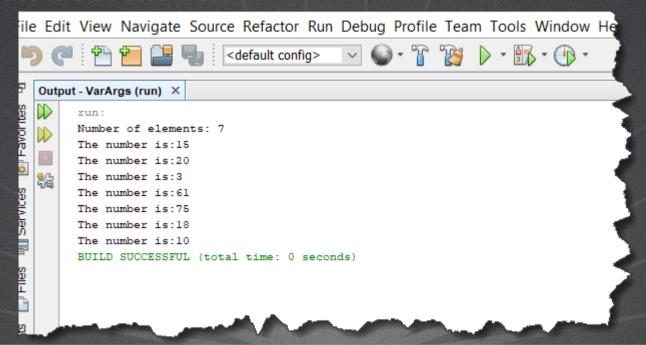
7. EXECUTE THE CLASS

Execute the class:



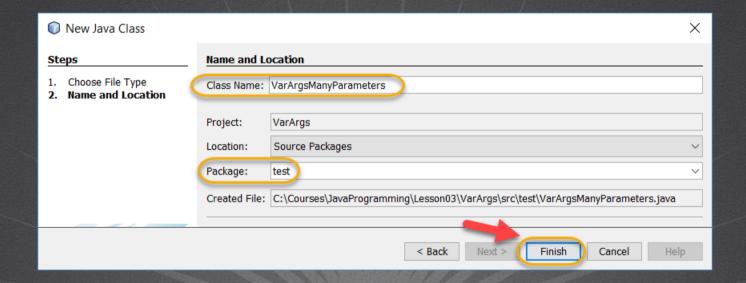
7. EXECUTE THE CLASS (CONT)

The result is as follows:



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Create a new Java class:



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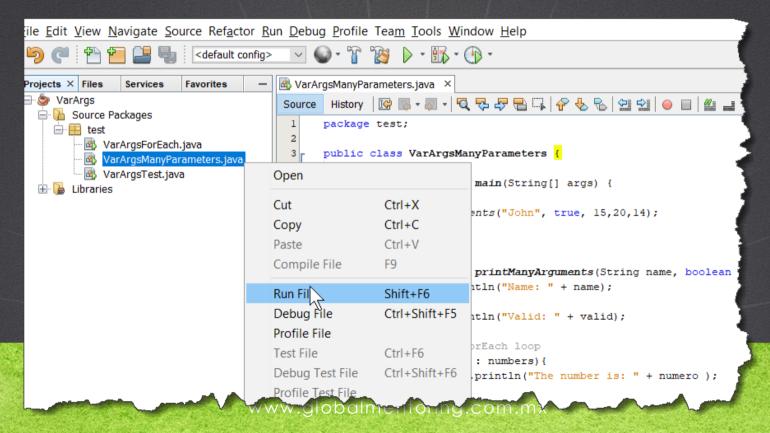
9. MODIFY THE CODE

VarArgsManyParameters.java:

```
package test;
public class VarArgsManyParameters {
    public static void main(String[] args) {
        printManyArguments("John", true, 15,20,14);
    public static void printManyArguments(String name, boolean valid, int... numbers){
        System.out.println("Name: " + name);
        System.out.println("Valid: " + valid);
        //We use the forEach loop
        for(int number : numbers){
            System.out.println("The number is: " + number);
```

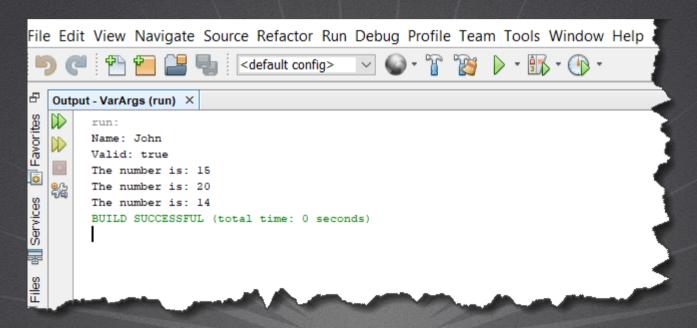
10. EXECUTE THE CLASS

Execute the class:



10. EXECUTE THE CLASS (CONT)

The result is as follows:



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EXERCISE CONCLUSION

- With this exercise we have put into practice the concept of variable arguments (varargs) in Java.
- We have seen that in addition to the use of variable arguments, we can combine it with the concept of for Each to go through each of the arguments of the created vararg array.

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By: Eng. Ubaldo Acosta



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