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Get Help

Launch NetBeans and create a new project named **CPS150_HW3**. Then:

- Delete the auto-generated main class file (CPS150_HW3.java)
- Download the replacement [CPS150_HW3.java](#) file into the project source folder
(e.g., *Documents\NetBeansProjects\CPS150_HW3\src\cps150_hw3*)
- Download the input file [CPS150_HW3_input.txt](#) file into the project folder
(e.g., *Documents\NetBeansProjects\CPS150_HW3*)
- In the Project explorer, right-click on the downloaded *CPS150_HW3.java* and select the *Refactor > Move...* menu option
When the confirmation dialog appears, click the *Refactor* button
- Type your section number where indicated and your name after the @author tag in the comment block before the class definition; i.e.:

```
/**
 * CPS 150, Section *** type your section number
 here ***
 *
 * Homework Assignment 3
 *
 * @author type your name here
 */
```

- Using the conversion table shown here, complete the method definitions for the following conversion methods:
 - **celsiusToFahrenheit(double) -> double**
 - **fahrenheitToCelsius(double) -> double**
 - **celsiusToKelvin(double) -> double**
 - **kelvinToCelsius(double) -> double**
 - **fahrenheitToRankin(double) -> double**

- `rankinToFahrenheit(double) -> double`
 - `fahrenheitToKelvin(double) -> double`
 - `kelvinToFahrenheit(double) -> double`
 - `celsiusToRankin(double) -> double`
 - `rankinToCelsius(double) -> double`
 - `kelvinToRankin(double) -> double`
 - `rankinToKelvin(double) -> double`
- Compile and run the program. Make sure the actual outputs match the expected outputs shown below.

***** testing the celsiusToFahrenheit conversion method *****

0.00 degrees Celsius = 32.00 degrees Fahrenheit
 100.00 degrees Celsius = 212.00 degrees Fahrenheit
 -40.00 degrees Celsius = -40.00 degrees Fahrenheit

***** testing the fahrenheitToCelsius conversion method *****

32.00 degrees Fahrenheit = 0.00 degrees Celsius
 212.00 degrees Fahrenheit = 100.00 degrees Celsius
 -40.00 degrees Fahrenheit = -40.00 degrees Celsius

***** testing the celsiusToKelvin conversion method *****

0.00 degrees Celsius = 273.16 degrees Kelvin
 100.00 degrees Celsius = 373.16 degrees Kelvin
 -40.00 degrees Celsius = 233.16 degrees Kelvin

***** testing the kelvinToCelsius conversion method *****

273.16 degrees Kelvin = 0.00 degrees Celsius
 373.16 degrees Kelvin = 100.00 degrees Celsius
 233.16 degrees Kelvin = -40.00 degrees Celsius

***** testing the fahrenheitToRankin conversion method *****

32.00 degrees Fahrenheit = 491.69 degrees Rankin
 212.00 degrees Fahrenheit = 671.69 degrees Rankin
 -40.00 degrees Fahrenheit = 419.69 degrees Rankin

***** testing the rankinToFahrenheit conversion method *****

491.69 degrees Rankin = 32.00 degrees Fahrenheit

671.69 degrees Rankin = 212.00 degrees Fahrenheit
419.69 degrees Rankin = -40.00 degrees Fahrenheit

*** testing the fahrenheitToKelvin conversion method ***

32.00 degrees Fahrenheit = 273.16 degrees Kelvin
212.00 degrees Fahrenheit = 373.16 degrees Kelvin
-40.00 degrees Fahrenheit = 233.16 degrees Kelvin

*** testing the kelvinToFahrenheit conversion method ***

273.16 degrees Kelvin = 32.00 degrees Fahrenheit
373.16 degrees Kelvin = 212.00 degrees Fahrenheit
233.16 degrees Kelvin = -40.00 degrees Fahrenheit

*** testing the celsiusToRankin conversion method ***

0.00 degrees Celsius = 491.69 degrees Rankin
100.00 degrees Celsius = 671.69 degrees Rankin
-40.00 degrees Celsius = 419.69 degrees Rankin

*** testing the rankinToCelsius conversion method ***

491.69 degrees Rankin = 0.00 degrees Celsius
671.69 degrees Rankin = 100.00 degrees Celsius
419.69 degrees Rankin = -40.00 degrees Celsius

*** testing the kelvinToRankin conversion method ***

273.16 degrees Kelvin = 491.69 degrees Rankin
373.16 degrees Kelvin = 671.69 degrees Rankin
233.16 degrees Kelvin = 419.69 degrees Rankin

*** testing the rankinToKelvin conversion method ***

491.69 degrees Rankin = 273.16 degrees Kelvin
671.69 degrees Rankin = 373.16 degrees Kelvin
419.69 degrees Rankin = 233.16 degrees Kelvin

***IMPORTANT! You are not allowed to modify the program code (i.e., the main method) in any way!
Doing so will result in a grade of zero (0) for this assignment!***



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