**Chapter 3 Exercise**

**Slack Time**

Directions: Write a text-based program in Java that shall calculate the total slack time for the tasks in a project.

The input to the program shall be read by way of the standard input device and shall consist of the following format. The first line shall contain an integer value that tells the number of rows of data to read in. The next lines shall contain the rows, where each row shall contain three integer values (separated by one or more spaces): the task number, its available time in days and its real time in days.

After reading in the data, the program shall calculate the slack time for each row, where slack time equals available time minus real time. The program shall then print out a table containing four columns. The columns of the table header shall have the following labels: “TASK NUMBER”, “AVAILABLE TIME”, “REAL TIME”, and “SLACK TIME”. The first three columns shall contain the input values read in each row. The fourth column shall be the calculated slack time in days.

After the table is printed, the software shall print a line starting with the label “TOTAL SLACK TIME: ” followed by the total slack time of all the rows.

Put your completed Java source code files into a single zip file. Then submit your zip file on the course website.