

2. This question involves the implementation of a fitness tracking system that is represented by the `StepTracker` class. A `StepTracker` object is created with a parameter that defines the minimum number of steps that must be taken for a day to be considered *active*.

The `StepTracker` class provides a constructor and the following methods.

- `addDailySteps`, which accumulates information about steps, in readings taken once per day
- `activeDays`, which returns the number of active days
- `averageSteps`, which returns the average number of steps per day, calculated by dividing the total number of steps taken by the number of days tracked

The following table contains a sample code execution sequence and the corresponding results.

Statements and Expressions	Value Returned (blank if no value)	Comment
<code>StepTracker tr = new StepTracker(10000);</code>		Days with at least 10,000 steps are considered active. Assume that the parameter is positive.
<code>tr.activeDays();</code>	0	No data have been recorded yet.
<code>tr.averageSteps();</code>	0.0	When no step data have been recorded, the <code>averageSteps</code> method returns 0.0.
<code>tr.addDailySteps(9000);</code>		This is too few steps for the day to be considered active.
<code>tr.addDailySteps(5000);</code>		This is too few steps for the day to be considered active.
<code>tr.activeDays();</code>	0	No day had at least 10,000 steps.
<code>tr.averageSteps();</code>	7000.0	The average number of steps per day is (14000 / 2).
<code>tr.addDailySteps(13000);</code>		This represents an active day.
<code>tr.activeDays();</code>	1	Of the three days for which step data were entered, one day had at least 10,000 steps.
<code>tr.averageSteps();</code>	9000.0	The average number of steps per day is (27000 / 3).
<code>tr.addDailySteps(23000);</code>		This represents an active day.
<code>tr.addDailySteps(1111);</code>		This is too few steps for the day to be considered active.
<code>tr.activeDays();</code>	2	Of the five days for which step data were entered, two days had at least 10,000 steps.
<code>tr.averageSteps();</code>	10222.2	The average number of steps per day is (51111 / 5).

Write the complete `StepTracker` class, including the constructor and any required instance variables and methods. Your implementation must meet all specifications and conform to the example.