## **Coding Standard Template**

Purpose	To guide implementation of Java programs
Program Headers	Begin all programs with a descriptive header.
Header Format	/************
	Program Assignment: the program number
	Name: name
	Date: the date you started developing the program
	Description: purpose and main function  ***********************************
	, , , , , , , , , , , , , , , , , , ,
Listing Contents	Provide a summary of the listing contents.
Contents	/************
Example	コンテンツリスト:
	再利用の説明
	修正の説明
	コンパイルの説明
	クラス宣言:
	-Program1
	-Calculator
	実装メソッド
	-main()
	-calcSum()
	*****************
Reuse Instructions	• Describe how the program is used. Provide the declaration format, parameter values and types, and parameter limits.
	Provide warnings of illegal values, overflow conditions, or other conditions that could potentially result in improper operation.
Reuse Example	/************
	再利用の説明
	int printLine(String line)
	目的:String 型文字列 line を 1 行で印刷する
	制約:文字列の長さが LINE_LENGTH 以下であること
	戻り値:印刷可能であれば 1, 不可能であれば ************************************
Identifiers	Use descriptive names for all variables, function names, constants, and other identifiers. Avoid abbreviations or single letter variables.
Identifier Example	int numberOfStudents 良い例
	int x4, j,ftave 悪い例

(continued)

## **Coding Standard Template (continued)**

Comments	Document the code so that the reader can understand its operation.
	Comments should explain both the purpose and behavior of the code.
	Comment variable declarations to indicate their purpose.
Good Comment	If(recordCount > limit) //すべてのレコードが処理されたか?
Bad Comment	If(recordCount > limit) //recordCount が limit を超えているかチェ
	ックする
Major Sections	Precede major program sections by a block comment that describes the processing that is done in the next section
Example	/***********
	このセクションでは、配列「grades」の内容を調べ、クラスの平均点を計算す
	る。
	*************
Blank Spaces	Write programs with sufficient spacing so they do not appear crowded.
	Separate every program construct with at least one space.
Indenting	Indent every level of brace from the previous one.
	• 中括弧の開始は前の行の末尾に、終了は単独の行に配置し開始の行の先頭と
	横軸をそろえる。
Indenting	while (missDistance > threshold) {
Example	<pre>successCode = moveRobot(targetLocation);</pre>
	if (successCode == MOVE_FAILED) {
	<pre>System.out.println("The robot move has failed.");</pre>
	}
	}
Capitalization	UPPER_SNAKE_CASE all defines.
	• camelCase all other identifiers and reserved words.
	<ul> <li>Messages being output to the user can be mixed-case so as to make a clean user presentation.</li> </ul>
Capitalization Example	<pre>public static final int MAX_SCORE = 100;</pre>