



POLITECNICO DI MILANO  
SCUOLA DI INGEGNERIA INDUSTRIALE E  
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M.Sc. IN COMPUTER SCIENCE AND ENGINEERING

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# GlassFish Server

## Code Inspection

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## List of Figures

## **Abstract**

This document is the Code Inspection.

@nno @nlv @ndl

@

@bht

@des

@destrue

# **1 Functional Role of Classes**

## 2 List of Issues

### 2.1 preInvokeNoTx

#### Method

- **Name:** preInvokeNoTx( EjbInvocation inv )
- **Start Line:** 1599
- **Location:** appserver/persistence/entitybean-container/src/main/java/org/glassfish/persistence/ejb/entitybean/container/EntityContainer.java

#### Naming Convention

1. *Name meaningfulness:* No issues found.
2. *One char for loops:* **In line 1609 a single char name is used for a not throwaway var.**
3. *Classes are nouns in camelCase:* No issues found.
4. *Interfaces are nouns in camelCase:* No issues found.
5. *Methods are verbs in camelCase:* No issues found.
6. *Class variables in camelCase (may be preceded by “\_”):* No issues found.
7. *Constants all UPPERCASE (with words separated by “\_”):* No issues found.

#### Indention

8. *Three or four spaces:* No issues found.
9. *No tabs:* No issues found.

#### Braces

10. *Consistent bracing style:* No issues found.
11. *Single statements sorrounded by curly braces:* No issues found.



## **File Organizaion**

- 12. *Blank lines and optional comments to separate sections:* No issues found.
- 13. *Line length  $j= 80$  characters (when practical):* No issues found.
- 14. *If it must exceed 80 characters, then they are  $j= 120$ :* No issues found.

## **Wrapping Lines**

- 15. *Line breaks after comma or operator:* No issues found.
- 16. *Higher-level breaks are used:* No issues found.
- 17. *New statements aligned with same level expressions:* No issues found.

## **Comments**

- 18. *Comments adequately explain the purpose of the code:* No issues found.
- 19. *Commented code has reason to exist and contains date:* No issues found.

## **Java Source Files**

- 20. *Each java source file contains only one public class or interface:* No issues found.
- 21. *The public class is the first class or interface in the file:* No issues found.
- 22. *External program interfaces are implemented consistently w.r.t. the javadoc:* No issues found.
- 23. *Javadoc is complete:* **Method has not a Javadoc comment.**

## **Package and Import Statements**

- 24. *If any package statements are needed, they should be the first non-comment statements:* No issues found.

## **Class and Interface Declarations**

- 25. *Class or interface follows the declaration template:*
  - (a) Class/interface documentation comment
  - (b) Class/interface statement
  - (c) Class/interface implementation comment, if necessary

- (d) Class (static) variables
  - i. first *public* class variables
  - ii. next *protected* class variables
  - iii. next package level (no access modifier)
  - iv. last *private* class variables
- (e) Instance variables
  - i. first *public* class variables
  - ii. next *protected* class variables
  - iii. next package level (no access modifier)
  - iv. last *private* class variables
- (f) Constructors
- (g) Methods

: No issues found.

26. *Methods grouped by functionality*: No issues found.

27. *Code is free of duplicates, long methods, big classes, breaking encapsulation, also, coupling and cohesion are adequate*: No issues found.

### **Initialization and Declarations**

28. *Correct type of variables and class members (right visibility)*: No issues found.

29. *Variables are declared in the proper scope*: No issues found.

30. *Constructors are called when a new object is desired*: No issues found.

31. *All object references are initialized before use*: No issues found.

32. *Variables are initialized where they are declared, unless dependent upon a computation*: No issues found.

33. *Declarations appear at the beginning of blocks*: No issues found.

### **Method Calls**

34. *Parameters are presented in the correct order*: No issues found.

35. *Correct method is being called*: No issues found.

36. *Method returned variables are used properly*: No issues found.

## Arrays

- 37. *Required array elements are accessed through the index:* No issues found.
- 38. *Indexes have been prevented from going out-of-bounds:* No issues found.
- 39. *Constructors are called when a new array item is desired:* No issues found.

## Object Comparison

- 40. *All objects are compared with “equals”:* No issues found.

## Output Format

- 41. *Displayed output is free of spelling and grammatical errors:* No issues found.
- 42. *Error messages are comprehensive and provide guidance as to how to correct the problem:* No issues found.
- 43. *Output is formatted correctly in terms of line stepping and spacing:* No issues found.

## Computation, Comparisons and Assignments

- 44. *Implementation avoids “brutish programming”<sup>1</sup>:* No issues found.
- 45. *Order of computation/evaluation, operator precedence and parenthesizing:* No issues found.
- 46. *Liberal use of parenthesis is used to avoid operator precedence problems.:* No issues found.
- 47. *All denominators of a division are prevented from being zero:* No issues found.
- 48. *Integer arithmetic, especially division, are used appropriately to avoid causing unexpected truncation/rounding:* No issues found.
- 49. *Comparison and Boolean operators are correct:* No issues found.
- 50. *Throw-catch expressions, and their error condition is actually legitimate:* No issues found.
- 51. *Code is free of any implicit type conversions:* No issues found.

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<sup>1</sup>See <http://users.csc.calpoly.edu/~jdalbey/SWE/CodeSmells/bonehead.html>.

## Exceptions

- 52. *Relevant exceptions are caught:* No issues found.
- 53. *Appropriate action are taken for each catch block:* No issues found.

## Flow of control

- 54. *In a switch statement, all cases are addressed by break or return:* No issues found.
- 55. *All switch statements have a default branch:* No issues found.
- 56. *All loops are correctly formed, with the appropriate initialization, increment and termination expressions:* No issues found.

## Files

- 57. *All files are properly declared and opened:* No issues found.
- 58. *All files are closed properly, even in the case of an error:* No issues found.
- 59. *EOF conditions are detected and handled correctly:* No issues found.
- 60. *All file exceptions are caught and dealt with accordingly:* No issues found.

## 2.2 isHomeFinder

### Method

- **Name:** isHomeFinder( Method method )
- **Start Line:** 1652
- **Location:** appserver/persistence/entitybean-container/src/main/java/org/glassfish/persistence/ejb/entitybean/container/EntityContainer.java

### Naming Convention

- 1. *Name meaningfulness:* No issues found.
- 2. *One char for loops:* No issues found.
- 3. *Classes are nouns in camelCase:* No issues found.
- 4. *Interfaces are nouns in camelCase:* No issues found.

5. *Methods are verbs in camelCase*: No issues found.
6. *Class variables in camelCase (may be preceded by “\_”)*: No issues found.
7. *Constants all UPPERCASE (with words separated by “\_”)*: No issues found.

### **Indentation**

8. *Three or four spaces*: No issues found.
9. *No tabs*: No issues found.

### **Braces**

10. *Consistent bracing style*: No issues found.
11. *Single statements surrounded by curly braces*: No issues found.

### **File Organizaion**

12. *Blank lines and optional comments to separate sections*: No issues found.
13. *Line length  $j= 80$  characters (when practical)*: No issues found.
14. *If it must exceed 80 characters, then they are  $j= 120$* : No issues found.

### **Wrapping Lines**

15. *Line breaks after comma or operator*: No issues found.
16. *Higher-level breaks are used*: No issues found.
17. *New statements aligned with same level expressions*: No issues found.

### **Comments**

18. *Comments adequately explain the purpose of the code*: No issues found.
19. *Commented code has reason to exist and contains date*: No issues found.

### Java Source Files

- 20. *Each java source file contains only one public class or interface:* No issues found.
- 21. *The public class is the first class or interface in the file:* No issues found.
- 22. *External program interfaces are implemented consistently w.r.t. the javadoc:* No issues found.
- 23. *Javadoc is complete:* **Method has not a Javadoc comment.**

### Package and Import Statements

- 24. *If any package statements are needed, they should be the first non-comment statements:* No issues found.

### Class and Interface Declarations

- 25. *Class or interface follows the declaration template:*
  - (a) Class/interface documentation comment
  - (b) Class/interface statement
  - (c) Class/interface implementation comment, if necessary
  - (d) Class (static) variables
    - i. first *public* class variables
    - ii. next *protected* class variables
    - iii. next package level (no access modifier)
    - iv. last *private* class variables
  - (e) Instance variables
    - i. first *public* class variables
    - ii. next *protected* class variables
    - iii. next package level (no access modifier)
    - iv. last *private* class variables
  - (f) Constructors
  - (g) Methods

: No issues found.
- 26. *Methods grouped by functionality:* No issues found.
- 27. *Code is free of duplicates, long methods, big classes, breaking encapsulation, also, coupling and cohesion are adequate:* No issues found.

## Initialization and Declarations

- 28. *Correct type of variables and class members (right visibility):* No issues found.
- 29. *Variables are declared in the proper scope:* No issues found.
- 30. *Constructors are called when a new object is desired:* No issues found.
- 31. *All object references are initialized before use:* No issues found.
- 32. *Variables are initialized where they are declared, unless dependent upon a computation:* No issues found.
- 33. *Declarations appear at the beginnig of blocks:* No issues found.

## Method Calls

- 34. *Parameters are presented in the correct order:* No issues found.
- 35. *Correct method is being called:* No issues found.
- 36. *Method returned variables are used properly:* No issues found.

## Arrays

- 37. *Required array elements are accessed through the index:* No issues found.
- 38. *Indexes have been prevented from going out-of-bounds:* No issues found.
- 39. *Constructors are called when a new array item is desired:* No issues found.

## Object Comparison

- 40. *All objects are compared with “equals”:* **In line 1657 it’s not used equals to compare two objects.**

## Output Format

- 41. *Displayed output is free of spelling and grammatical errors:* No issues found.
- 42. *Error messages are comprehensive and provide guidance as to how to correct the problem:* No issues found.
- 43. *Output is formatted correctly in terms of line stepping and spacing:* No issues found.

## Computation, Comparisons and Assignments

- 44. *Implementation avoids “brutish programming”*<sup>2</sup>: No issues found.
- 45. *Order of computation/evaluation, operator precedence and parenthesizing*: No issues found.
- 46. *Liberal use of parenthesis is used to avoid operator precedence problems.*: No issues found.
- 47. *All denominators of a division are prevented from being zero*: No issues found.
- 48. *Integer arithmetic, especially division, are used appropriately to avoid causing unexpected truncation/rounding*: No issues found.
- 49. *Comparison and Boolean operators are correct*: No issues found.
- 50. *Throw-catch expressions, and their error condition is actually legitimate*: No issues found.
- 51. *Code is free of any implicit type conversions*: No issues found.

## Exceptions

- 52. *Relevant exceptions are caught*: No issues found.
- 53. *Appropriate action are taken for each catch block*: No issues found.

## Flow of control

- 54. *In a switch statement, all cases are addressed by break or return*: No issues found.
- 55. *All switch statements have a default branch*: No issues found.
- 56. *All loops are correctly formed, with the appropriate initialization, increment and termination expressions*: No issues found.

## Files

- 57. *All files are properly declared and opened*: No issues found.
- 58. *All files are closed properly, even in the case of an error*: No issues found.
- 59. *EOF conditions are detected and handled correctly*: No issues found.

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<sup>2</sup>See <http://users.csc.calpoly.edu/~jdalbey/SWE/CodeSmells/bonehead.html>.



60. *All file exceptions are caught and dealt with accordingly.* No issues found.

## 3 Other Problems

This section contains formatting problems found in all the class.

### 3.1 Indentation

- – line:“773”
  - error:“*if* child have incorrect indentation level 16, expected level should be 20.”
- – line:“773”
  - error:“—— have incorrect indentation level 16, expected level should be 20.”
- – line:“853”
  - error:“*EjbInvocation* have incorrect indentation level 5, expected level should be 8.”
- – line:“881”
  - error:“*!* have incorrect indentation level 8, expected level should be 12.”
- – line:“881”
  - error:“*if* child have incorrect indentation level 8, expected level should be 12.”
- – line:“1035”
  - error:“*method def lparen* have incorrect indentation level 8, expected level should be 4.”
- – line:“1050”
  - error:“( have incorrect indentation level 2, expected level should be 9.”
- – line:“1053”
  - error:“*activeTxCache* have incorrect indentation level 3, expected level should be 6.”
- – line:“1688”
  - error:“*method call* child have incorrect indentation level 11, expected level should be 12.”

- – line:“1688”
  - error:“*try* child have incorrect indentation level 11, expected level should be 12.”
- – line:“1713”
  - error:“*method def modifier* have incorrect indentation level 24, expected level should be one of the following: 28, 32.”
- – line:“1714”
  - error:“*method call* child have incorrect indentation level 28, expected level should be one of the following: 32, 36.”
- – line:“1714”
  - error:“*method def* child have incorrect indentation level 28, expected level should be one of the following: 32, 36.”
- – line:“1715”
  - error:“*method def* child have incorrect indentation level 28, expected level should be one of the following: 32, 36.”
- – line:“1716”
  - error:“*method def rcurlly* have incorrect indentation level 24, expected level should be one of the following: 28, 32.”
- – line:“1717”
  - error:“*object def rcurlly* have incorrect indentation level 20, expected level should be one of the following: 24, 28.”
- – line:“1727”
  - error:“*if* child have incorrect indentation level 26, expected level should be 32.”
- – line:“1750”
  - error:“*method def modifier* have incorrect indentation level 24, expected level should be one of the following: 28, 32.”
- – line:“1751”
  - error:“*method call* child have incorrect indentation level 28, expected level should be one of the following: 32, 36.”
- – line:“1751”

- error:“*method def* child have incorrect indentation level 28, expected level should be one of the following: 32, 36.”
- – line:“1752”
  - error:“*method def* child have incorrect indentation level 28, expected level should be one of the following: 32, 36.”
- – line:“1753”
  - error:“*method def rcurlly* have incorrect indentation level 24, expected level should be one of the following: 28, 32.”
- – line:“1754”
  - error:“*object def rcurlly* have incorrect indentation level 20, expected level should be one of the following: 24, 28.”
- – line:“1837”
  - error:“*method def lparen* have incorrect indentation level 8, expected level should be 4.”
- – line:“1843”
  - error:“*method def lparen* have incorrect indentation level 8, expected level should be 4.”
- – line:“1850”
  - error:“*method def lparen* have incorrect indentation level 8, expected level should be 4.”
- – line:“2144”
  - error:“*ejbContainerUtilImpl* have incorrect indentation level 2, expected level should be 9.”
- – line:“2147”
  - error:“*if* child have incorrect indentation level 8, expected level should be 12.”
- – line:“2461”
  - error:“*method call lparen* have incorrect indentation level 28, expected level should be 24.”
- – line:“2909”

- error:“*method def modifier* have incorrect indentation level 24, expected level should be one of the following: 28, 32.”
- – line:“2910”
  - error:“*method call* child have incorrect indentation level 28, expected level should be one of the following: 32, 36.”
- – line:“2910”
  - error:“*method def* child have incorrect indentation level 28, expected level should be one of the following: 32, 36.”
- – line:“2911”
  - error:“*method def* child have incorrect indentation level 28, expected level should be one of the following: 32, 36.”
- – line:“2912”
  - error:“*method def rcurly* have incorrect indentation level 24, expected level should be one of the following: 28, 32.”
- – line:“2913”
  - error:“*object def rcurly* have incorrect indentation level 20, expected level should be one of the following: 24, 28.”
- – line:“2946”
  - error:“*method def modifier* have incorrect indentation level 24, expected level should be one of the following: 28, 32.”
- – line:“2947”
  - error:“*method call* child have incorrect indentation level 28, expected level should be one of the following: 32, 36.”
- – line:“2947”
  - error:“*method def* child have incorrect indentation level 28, expected level should be one of the following: 32, 36.”
- – line:“2948”
  - error:“*method def* child have incorrect indentation level 28, expected level should be one of the following: 32, 36.”
- – line:“2949”

- error:“*method def rcurly* have incorrect indentation level 24, expected level should be one of the following: 28, 32.”
- – line:“2950”
  - error:“*object def rcurly* have incorrect indentation level 20, expected level should be one of the following: 24, 28.”
- – line:“2976”
  - error:“*implements* have incorrect indentation level 1, expected level should be 8.”
- – line:“3020”
  - error:“*method def modifier* have incorrect indentation level 4, expected level should be 8.”

### 3.2 Line length

- – line:“267”
  - error:“Line is longer than 80 characters (found 89).”
- – line:“272”
  - error:“Line is longer than 80 characters (found 118).”
- – line:“312”
  - error:“Line is longer than 80 characters (found 91).”
- – line:“321”
  - error:“Line is longer than 80 characters (found 91).”
- – line:“325”
  - error:“Line is longer than 80 characters (found 88).”
- – line:“346”
  - error:“Line is longer than 80 characters (found 89).”
- – line:“437”
  - error:“Line is longer than 80 characters (found 89).”
- – line:“438”

- error:“Line is longer than 80 characters (found 82).”
- - line:“440”
  - error:“Line is longer than 80 characters (found 87).”
- - line:“466”
  - error:“Line is longer than 80 characters (found 86).”
- - line:“486”
  - error:“Line is longer than 80 characters (found 83).”
- - line:“499”
  - error:“Line is longer than 80 characters (found 94).”
- - line:“786”
  - error:“Line is longer than 80 characters (found 85).”
- - line:“824”
  - error:“Line is longer than 80 characters (found 88).”
- - line:“827”
  - error:“Line is longer than 80 characters (found 99).”
- - line:“834”
  - error:“Line is longer than 80 characters (found 94).”
- - line:“837”
  - error:“Line is longer than 80 characters (found 101).”
- - line:“1004”
  - error:“Line is longer than 80 characters (found 99).”
- - line:“1005”
  - error:“Line is longer than 80 characters (found 87).”
- - line:“1006”
  - error:“Line is longer than 80 characters (found 96).”
- - line:“1007”
  - error:“Line is longer than 80 characters (found 96).”

- – line:“1008”
  - error:“Line is longer than 80 characters (found 97).”
- – line:“1009”
  - error:“Line is longer than 80 characters (found 96).”
- – line:“1013”
  - error:“Line is longer than 80 characters (found 97).”
- – line:“1015”
  - error:“Line is longer than 80 characters (found 99).”
- – line:“1016”
  - error:“Line is longer than 80 characters (found 87).”
- – line:“1017”
  - error:“Line is longer than 80 characters (found 88).”
- – line:“1018”
  - error:“Line is longer than 80 characters (found 96).”
- – line:“1019”
  - error:“Line is longer than 80 characters (found 97).”
- – line:“1020”
  - error:“Line is longer than 80 characters (found 82).”
- – line:“1022”
  - error:“Line is longer than 80 characters (found 105).”
- – line:“1024”
  - error:“Line is longer than 80 characters (found 99).”
- – line:“1025”
  - error:“Line is longer than 80 characters (found 87).”
- – line:“1026”
  - error:“Line is longer than 80 characters (found 92).”
- – line:“1030”



- error:“Line is longer than 80 characters (found 96).”
- - line:“1031”
  - error:“Line is longer than 80 characters (found 90).”
- - line:“1036”
  - error:“Line is longer than 80 characters (found 108).”
- - line:“1045”
  - error:“Line is longer than 80 characters (found 82).”
- - line:“1050”
  - error:“Line is longer than 80 characters (found 81).”
- - line:“1118”
  - error:“Line is longer than 80 characters (found 91).”
- - line:“1154”
  - error:“Line is longer than 80 characters (found 83).”
- - line:“1184”
  - error:“Line is longer than 80 characters (found 96).”
- - line:“1191”
  - error:“Line is longer than 80 characters (found 95).”
- - line:“1206”
  - error:“Line is longer than 80 characters (found 89).”
- - line:“1254”
  - error:“Line is longer than 80 characters (found 82).”
- - line:“1481”
  - error:“Line is longer than 80 characters (found 81).”
- - line:“1640”
  - error:“Line is longer than 80 characters (found 90).”
- - line:“1691”
  - error:“Line is longer than 80 characters (found 89).”

- – line:“1751”  
      – error:“Line is longer than 80 characters (found 85).”
- – line:“1774”  
      – error:“Line is longer than 80 characters (found 84).”
- – line:“1868”  
      – error:“Line is longer than 80 characters (found 91).”
- – line:“1975”  
      – error:“Line is longer than 80 characters (found 97).”
- – line:“2011”  
      – error:“Line is longer than 80 characters (found 92).”
- – line:“2070”  
      – error:“Line is longer than 80 characters (found 81).”
- – line:“2161”  
      – error:“Line is longer than 80 characters (found 81).”
- – line:“2171”  
      – error:“Line is longer than 80 characters (found 101).”
- – line:“2189”  
      – error:“Line is longer than 80 characters (found 81).”
- – line:“2199”  
      – error:“Line is longer than 80 characters (found 101).”
- – line:“2294”  
      – error:“Line is longer than 80 characters (found 88).”
- – line:“2295”  
      – error:“Line is longer than 80 characters (found 92).”
- – line:“2297”  
      – error:“Line is longer than 80 characters (found 94).”
- – line:“2301”

- error:“Line is longer than 80 characters (found 85).”
- - line:“2305”
  - error:“Line is longer than 80 characters (found 83).”
- - line:“2309”
  - error:“Line is longer than 80 characters (found 95).”
- - line:“2326”
  - error:“Line is longer than 80 characters (found 90).”
- - line:“2335”
  - error:“Line is longer than 80 characters (found 82).”
- - line:“2338”
  - error:“Line is longer than 80 characters (found 95).”
- - line:“2341”
  - error:“Line is longer than 80 characters (found 89).”
- - line:“2344”
  - error:“Line is longer than 80 characters (found 85).”
- - line:“2371”
  - error:“Line is longer than 80 characters (found 88).”
- - line:“2518”
  - error:“Line is longer than 80 characters (found 83).”
- - line:“2587”
  - error:“Line is longer than 80 characters (found 85).”
- - line:“2668”
  - error:“Line is longer than 80 characters (found 81).”
- - line:“2689”
  - error:“Line is longer than 80 characters (found 81).”
- - line:“2759”
  - error:“Line is longer than 80 characters (found 86).”

- – line:“2779”
  - error:“Line is longer than 80 characters (found 106).”
- – line:“2787”
  - error:“Line is longer than 80 characters (found 89).”
- – line:“2788”
  - error:“Line is longer than 80 characters (found 88).”
- – line:“2799”
  - error:“Line is longer than 80 characters (found 85).”
- – line:“2805”
  - error:“Line is longer than 80 characters (found 84).”
- – line:“2814”
  - error:“Line is longer than 80 characters (found 84).”
- – line:“2817”
  - error:“Line is longer than 80 characters (found 81).”
- – line:“2889”
  - error:“Line is longer than 80 characters (found 93).”
- – line:“2947”
  - error:“Line is longer than 80 characters (found 85).”
- – line:“3025”
  - error:“Line is longer than 80 characters (found 84).”

### 3.3 Bracket position

- – line:“190”
  - error:“{ at column 1 should be on the previous line.”
- – line:“456”
  - error:“{ at column 5 should be on the previous line.”
- – line:“566”

- error:“{ at column 5 should be on the previous line.”
- - line:“573”
  - error:“{ at column 5 should be on the previous line.”
- - line:“817”
  - error:“{ at column 5 should be on the previous line.”
- - line:“855”
  - error:“{ at column 5 should be on the previous line.”
- - line:“929”
  - error:“{ at column 5 should be on the previous line.”
- - line:“1084”
  - error:“{ at column 5 should be on the previous line.”
- - line:“1100”
  - error:“{ at column 5 should be on the previous line.”
- - line:“1151”
  - error:“{ at column 5 should be on the previous line.”
- - line:“1583”
  - error:“{ at column 2 should be on the previous line.”
- - line:“1697”
  - error:“{ at column 5 should be on the previous line.”
- - line:“1844”
  - error:“{ at column 5 should be on the previous line.”
- - line:“1912”
  - error:“{ at column 5 should be on the previous line.”
- - line:“2310”
  - error:“{ at column 17 should be on the previous line.”
- - line:“2383”
  - error:“{ at column 5 should be on the previous line.”

- – line:“2398”
  - error:“{ at column 5 should be on the previous line.”
- – line:“2529”
  - error:“{ at column 5 should be on the previous line.”
- – line:“2535”
  - error:“{ at column 5 should be on the previous line.”
- – line:“2657”
  - error:“{ at column 5 should be on the previous line.”
- – line:“2860”
  - error:“{ at column 5 should be on the previous line.”
- – line:“2963”
  - error:“{ at column 5 should be on the previous line.”
- – line:“2977”
  - error:“{ at column 5 should be on the previous line.”

### 3.4 Tab character

- – line:“216”
  - error:“Line contains a tab character.”
- – line:“222”
  - error:“Line contains a tab character.”
- – line:“243”
  - error:“Line contains a tab character.”
- – line:“244”
  - error:“Line contains a tab character.”
- – line:“245”
  - error:“Line contains a tab character.”
- – line:“254”

- error:“Line contains a tab character.”
- - line:“255”
  - error:“Line contains a tab character.”
- - line:“257”
  - error:“Line contains a tab character.”
- - line:“268”
  - error:“Line contains a tab character.”
- - line:“269”
  - error:“Line contains a tab character.”
- - line:“273”
  - error:“Line contains a tab character.”
- - line:“467”
  - error:“Line contains a tab character.”
- - line:“472”
  - error:“Line contains a tab character.”
- - line:“477”
  - error:“Line contains a tab character.”
- - line:“478”
  - error:“Line contains a tab character.”
- - line:“479”
  - error:“Line contains a tab character.”
- - line:“480”
  - error:“Line contains a tab character.”
- - line:“481”
  - error:“Line contains a tab character.”
- - line:“482”
  - error:“Line contains a tab character.”

- – line:“483”  
      – error:“Line contains a tab character.”
- – line:“484”  
      – error:“Line contains a tab character.”
- – line:“489”  
      – error:“Line contains a tab character.”
- – line:“508”  
      – error:“Line contains a tab character.”
- – line:“509”  
      – error:“Line contains a tab character.”
- – line:“513”  
      – error:“Line contains a tab character.”
- – line:“514”  
      – error:“Line contains a tab character.”
- – line:“515”  
      – error:“Line contains a tab character.”
- – line:“516”  
      – error:“Line contains a tab character.”
- – line:“517”  
      – error:“Line contains a tab character.”
- – line:“533”  
      – error:“Line contains a tab character.”
- – line:“534”  
      – error:“Line contains a tab character.”
- – line:“535”  
      – error:“Line contains a tab character.”
- – line:“536”



- error:“Line contains a tab character.”
- - line:“537”
  - error:“Line contains a tab character.”
- - line:“538”
  - error:“Line contains a tab character.”
- - line:“540”
  - error:“Line contains a tab character.”
- - line:“544”
  - error:“Line contains a tab character.”
- - line:“548”
  - error:“Line contains a tab character.”
- - line:“552”
  - error:“Line contains a tab character.”
- - line:“556”
  - error:“Line contains a tab character.”
- - line:“557”
  - error:“Line contains a tab character.”
- - line:“558”
  - error:“Line contains a tab character.”
- - line:“803”
  - error:“Line contains a tab character.”
- - line:“853”
  - error:“Line contains a tab character.”
- - line:“854”
  - error:“Line contains a tab character.”
- - line:“856”
  - error:“Line contains a tab character.”

- – line:“857”  
     – error:“Line contains a tab character.”
- – line:“858”  
     – error:“Line contains a tab character.”
- – line:“899”  
     – error:“Line contains a tab character.”
- – line:“903”  
     – error:“Line contains a tab character.”
- – line:“904”  
     – error:“Line contains a tab character.”
- – line:“905”  
     – error:“Line contains a tab character.”
- – line:“906”  
     – error:“Line contains a tab character.”
- – line:“907”  
     – error:“Line contains a tab character.”
- – line:“908”  
     – error:“Line contains a tab character.”
- – line:“909”  
     – error:“Line contains a tab character.”
- – line:“910”  
     – error:“Line contains a tab character.”
- – line:“911”  
     – error:“Line contains a tab character.”
- – line:“912”  
     – error:“Line contains a tab character.”
- – line:“1049”

- error:“Line contains a tab character.”
- - line:“1050”
  - error:“Line contains a tab character.”
- - line:“1052”
  - error:“Line contains a tab character.”
- - line:“1053”
  - error:“Line contains a tab character.”
- - line:“1054”
  - error:“Line contains a tab character.”
- - line:“1055”
  - error:“Line contains a tab character.”
- - line:“1056”
  - error:“Line contains a tab character.”
- - line:“1057”
  - error:“Line contains a tab character.”
- - line:“1058”
  - error:“Line contains a tab character.”
- - line:“1059”
  - error:“Line contains a tab character.”
- - line:“1075”
  - error:“Line contains a tab character.”
- - line:“1153”
  - error:“Line contains a tab character.”
- - line:“1362”
  - error:“Line contains a tab character.”
- - line:“1363”
  - error:“Line contains a tab character.”

- – line:“1365”  
     – error:“Line contains a tab character.”
- – line:“1366”  
     – error:“Line contains a tab character.”
- – line:“1367”  
     – error:“Line contains a tab character.”
- – line:“1386”  
     – error:“Line contains a tab character.”
- – line:“1537”  
     – error:“Line contains a tab character.”
- – line:“1538”  
     – error:“Line contains a tab character.”
- – line:“1539”  
     – error:“Line contains a tab character.”
- – line:“1548”  
     – error:“Line contains a tab character.”
- – line:“1581”  
     – error:“Line contains a tab character.”
- – line:“1582”  
     – error:“Line contains a tab character.”
- – line:“1583”  
     – error:“Line contains a tab character.”
- – line:“1584”  
     – error:“Line contains a tab character.”
- – line:“1585”  
     – error:“Line contains a tab character.”
- – line:“1586”

- error:“Line contains a tab character.”
- - line:“1588”
  - error:“Line contains a tab character.”
- - line:“1589”
  - error:“Line contains a tab character.”
- - line:“1590”
  - error:“Line contains a tab character.”
- - line:“1591”
  - error:“Line contains a tab character.”
- - line:“1735”
  - error:“Line contains a tab character.”
- - line:“1739”
  - error:“Line contains a tab character.”
- - line:“1877”
  - error:“Line contains a tab character.”
- - line:“2072”
  - error:“Line contains a tab character.”
- - line:“2073”
  - error:“Line contains a tab character.”
- - line:“2074”
  - error:“Line contains a tab character.”
- - line:“2142”
  - error:“Line contains a tab character.”
- - line:“2143”
  - error:“Line contains a tab character.”
- - line:“2144”
  - error:“Line contains a tab character.”

- – line:“2145”  
     – error:“Line contains a tab character.”
- – line:“2146”  
     – error:“Line contains a tab character.”
- – line:“2148”  
     – error:“Line contains a tab character.”
- – line:“2149”  
     – error:“Line contains a tab character.”
- – line:“2150”  
     – error:“Line contains a tab character.”
- – line:“2161”  
     – error:“Line contains a tab character.”
- – line:“2171”  
     – error:“Line contains a tab character.”
- – line:“2172”  
     – error:“Line contains a tab character.”
- – line:“2173”  
     – error:“Line contains a tab character.”
- – line:“2174”  
     – error:“Line contains a tab character.”
- – line:“2175”  
     – error:“Line contains a tab character.”
- – line:“2177”  
     – error:“Line contains a tab character.”
- – line:“2199”  
     – error:“Line contains a tab character.”
- – line:“2200”

- error:“Line contains a tab character.”
- - line:“2201”
  - error:“Line contains a tab character.”
- - line:“2202”
  - error:“Line contains a tab character.”
- - line:“2227”
  - error:“Line contains a tab character.”
- - line:“2228”
  - error:“Line contains a tab character.”
- - line:“2229”
  - error:“Line contains a tab character.”
- - line:“2230”
  - error:“Line contains a tab character.”
- - line:“2320”
  - error:“Line contains a tab character.”
- - line:“2496”
  - error:“Line contains a tab character.”
- - line:“2976”
  - error:“Line contains a tab character.”
- - line:“2978”
  - error:“Line contains a tab character.”
- - line:“2979”
  - error:“Line contains a tab character.”
- - line:“2981”
  - error:“Line contains a tab character.”
- - line:“2982”
  - error:“Line contains a tab character.”

- – line:“2983”  
      – error:“Line contains a tab character.”
- – line:“2984”  
      – error:“Line contains a tab character.”
- – line:“2986”  
      – error:“Line contains a tab character.”
- – line:“2987”  
      – error:“Line contains a tab character.”
- – line:“2988”  
      – error:“Line contains a tab character.”
- – line:“2989”  
      – error:“Line contains a tab character.”
- – line:“2991”  
      – error:“Line contains a tab character.”
- – line:“2992”  
      – error:“Line contains a tab character.”
- – line:“2993”  
      – error:“Line contains a tab character.”
- – line:“2994”  
      – error:“Line contains a tab character.”
- – line:“2996”  
      – error:“Line contains a tab character.”
- – line:“2997”  
      – error:“Line contains a tab character.”
- – line:“2998”  
      – error:“Line contains a tab character.”
- – line:“3000”



- error:“Line contains a tab character.”
- - line:“3001”
  - error:“Line contains a tab character.”
- - line:“3002”
  - error:“Line contains a tab character.”
- - line:“3004”
  - error:“Line contains a tab character.”
- - line:“3005”
  - error:“Line contains a tab character.”
- - line:“3006”
  - error:“Line contains a tab character.”
- - line:“3008”
  - error:“Line contains a tab character.”
- - line:“3009”
  - error:“Line contains a tab character.”
- - line:“3010”
  - error:“Line contains a tab character.”
- - line:“3012”
  - error:“Line contains a tab character.”
- - line:“3013”
  - error:“Line contains a tab character.”
- - line:“3014”
  - error:“Line contains a tab character.”
- - line:“3016”
  - error:“Line contains a tab character.”
- - line:“3017”
  - error:“Line contains a tab character.”

- – line:“3018”  
      – error:“Line contains a tab character.”
- – line:“3021”  
      – error:“Line contains a tab character.”
- – line:“3022”  
      – error:“Line contains a tab character.”
- – line:“3023”  
      – error:“Line contains a tab character.”
- – line:“3024”  
      – error:“Line contains a tab character.”
- – line:“3025”  
      – error:“Line contains a tab character.”
- – line:“3026”  
      – error:“Line contains a tab character.”
- – line:“3035”  
      – error:“Line contains a tab character.”
- – line:“3036”  
      – error:“Line contains a tab character.”
- – line:“3039”  
      – error:“Line contains a tab character.”
- – line:“3040”  
      – error:“Line contains a tab character.”
- – line:“3044”  
      – error:“Line contains a tab character.”
- – line:“3045”  
      – error:“Line contains a tab character.”
- – line:“3047”

- error:“Line contains a tab character.”
- - line:“3048”
  - error:“Line contains a tab character.”
- - line:“3049”
  - error:“Line contains a tab character.”
- - line:“3050”
  - error:“Line contains a tab character.”
- - line:“3051”
  - error:“Line contains a tab character.”
- - line:“3052”
  - error:“Line contains a tab character.”
- - line:“3053”
  - error:“Line contains a tab character.”
- - line:“3055”
  - error:“Line contains a tab character.”
- - line:“3059”
  - error:“Line contains a tab character.”
- - line:“3060”
  - error:“Line contains a tab character.”
- - line:“3061”
  - error:“Line contains a tab character.”
- - line:“3062”
  - error:“Line contains a tab character.”
- - line:“3066”
  - error:“Line contains a tab character.”
- - line:“3067”
  - error:“Line contains a tab character.”

- – line:“3069”  
      – error:“Line contains a tab character.”
- – line:“3070”  
      – error:“Line contains a tab character.”
- – line:“3071”  
      – error:“Line contains a tab character.”
- – line:“3072”  
      – error:“Line contains a tab character.”
- – line:“3073”  
      – error:“Line contains a tab character.”
- – line:“3074”  
      – error:“Line contains a tab character.”
- – line:“3075”  
      – error:“Line contains a tab character.”
- – line:“3076”  
      – error:“Line contains a tab character.”
- – line:“3077”  
      – error:“Line contains a tab character.”
- – line:“3078”  
      – error:“Line contains a tab character.”
- – line:“3079”  
      – error:“Line contains a tab character.”
- – line:“3080”  
      – error:“Line contains a tab character.”
- – line:“3081”  
      – error:“Line contains a tab character.”
- – line:“3083”

- error:“Line contains a tab character.”
- - line:“3088”
  - error:“Line contains a tab character.”
- - line:“3089”
  - error:“Line contains a tab character.”
- - line:“3091”
  - error:“Line contains a tab character.”
- - line:“3092”
  - error:“Line contains a tab character.”
- - line:“3093”
  - error:“Line contains a tab character.”
- - line:“3094”
  - error:“Line contains a tab character.”
- - line:“3095”
  - error:“Line contains a tab character.”
- - line:“3096”
  - error:“Line contains a tab character.”
- - line:“3097”
  - error:“Line contains a tab character.”
- - line:“3098”
  - error:“Line contains a tab character.”
- - line:“3099”
  - error:“Line contains a tab character.”
- - line:“3100”
  - error:“Line contains a tab character.”
- - line:“3101”
  - error:“Line contains a tab character.”

- – line:“3102”  
– error:“Line contains a tab character.”
- – line:“3103”  
– error:“Line contains a tab character.”
- – line:“3105”  
– error:“Line contains a tab character.”
- – line:“3109”  
– error:“Line contains a tab character.”
- – line:“3113”  
– error:“Line contains a tab character.”

### 3.5 Missing brackets

- – line:“621”  
– error:“*if construct must use {}s.*”
- – line:“623”  
– error:“*if construct must use {}s.*”
- – line:“639”  
– error:“*if construct must use {}s.*”
- – line:“641”  
– error:“*if construct must use {}s.*”
- – line:“645”  
– error:“*if construct must use {}s.*”
- – line:“697”  
– error:“*if construct must use {}s.*”
- – line:“772”  
– error:“*if construct must use {}s.*”
- – line:“775”

- error:“*else construct must use {}s.*”
- - line:“818”
  - error:“*if construct must use {}s.*”
- - line:“940”
  - error:“*if construct must use {}s.*”
- - line:“942”
  - error:“*else construct must use {}s.*”
- - line:“959”
  - error:“*if construct must use {}s.*”
- - line:“961”
  - error:“*else construct must use {}s.*”
- - line:“971”
  - error:“*if construct must use {}s.*”
- - line:“973”
  - error:“*else construct must use {}s.*”
- - line:“1433”
  - error:“*if construct must use {}s.*”
- - line:“1786”
  - error:“*if construct must use {}s.*”
- - line:“2011”
  - error:“*if construct must use {}s.*”
- - line:“2360”
  - error:“*if construct must use {}s.*”

### 3.6 Naming patterns

- – line:“152”  
– error:“Local variable name *l* must match the right pattern.”
- – line:“510”  
– error:“Local variable name *k16\_1* must match the right pattern.”
- – line:“511”  
– error:“Local variable name *k16\_2* must match the right pattern.”
- – line:“227”  
– error:“Member name *DEFAULT\_LOAD\_FACTOR* must match the right pattern.”
- – line:“228”  
– error:“Member name *DEFAULT\_CACHE\_SIZE* must match the right pattern.”
- – line:“332”  
– error:“Local variable name *e* must match the right pattern.”
- – line:“607”  
– error:“Method name *\_getContext* must match the right pattern.”
- – line:“856”  
– error:“Local variable name *pKeys* must match the right pattern.”
- – line:“933”  
– error:“Local variable name *e* must match the right pattern.”
- – line:“952”  
– error:“Local variable name *c* must match the right pattern.”
- – line:“1101”  
– error:“Local variable name *i* must match the right pattern.”
- – line:“1448”  
– error:“Local variable name *e* must match the right pattern.”
- – line:“1491”



- error:“Local variable name *e* must match the right pattern.”
- – line:“1609”
  - error:“Local variable name *e* must match the right pattern.”
- – line:“69”
  - error:“Member name *nCallsInProgress* must match the right pattern.”
- – line:“115”
  - error:“Parameter name *b* must match the right pattern.”
- – line:“120”
  - error:“Parameter name *s* must match the right pattern.”
- – line:“134”
  - error:“Parameter name *b* must match the right pattern.”
- – line:“275”
  - error:“Method name *\_setNext* must match the right pattern.”
- – line:“279”
  - error:“Method name *\_getNext* must match the right pattern.”
- – line:“283”
  - error:“Method name *\_getPKHashCode* must match the right pattern.”
- – line:“125”
  - error:“Member name *RELATIVE\_TIME\_CHECK\_MODE* must match the right pattern.”
- – line:“236”
  - error:“Method name *\_getContext* must match the right pattern.”
- – line:“425”
  - error:“Local variable name *e* must match the right pattern.”
- – line:“827”
  - error:“Local variable name *e* must match the right pattern.”

- – line:“835”
  - error:“Local variable name *c* must match the right pattern.”
- – line:“893”
  - error:“Parameter name *v* must match the right pattern.”
- – line:“930”
  - error:“Parameter name *o* must match the right pattern.”
- – line:“84”
  - error:“Method name *\_refresh\_com\_sun\_ejb\_containers\_read\_only\_bean\_* must match the right pattern.”
- – line:“92”
  - error:“Method name *\_refresh\_All* must match the right pattern.”
- – line:“52”
  - error:“Method name *\_refresh\_com\_sun\_ejb\_containers\_read\_only\_bean\_* must match the right pattern.”
- – line:“55”
  - error:“Method name *\_refresh\_All* must match the right pattern.”

## 4 Appendix