S4

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| The while statement |
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| The do-while statement |
| The do-while loop in C, C++, and Java creates a loop with a trailing exit test. That is, the exit test occurs after the body of the loop has been executed. The do-while loop in the S4 source language works the same way. Let us consider the following example:  do  **{**  print(x);  x = x - 1;  }while(x);  This loop executes until x goes false (i.e., equals zero). Like the body of the while loop, the body of a do-while loop must consist of a single statement.  Then incorporate the required Java code into the S4 compiler. This procedure is not difficult—simply parallel the steps we used to handle the while loop. |
| Strings that span lines |
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| Range checking |
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| If statement |
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| Strings with embedded double quotes |
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| Error recovery |
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