

Fault Number	Line Number(s)	Fault Detected	Correction	Summary of Fix
1	Lines 118-119 (get_token function)	if(ch =='"')id=1; /* prepare for string */ if(ch ==59)id=2; /* prepare for comment */	Change line 118 id=2 to 1 Change line 119 id=1 to 2	Incorrect tokenization caused due to the id assignments between the function get_token and is_token_end
2	Line 362	return false;	change line 362 false to true	is_identifier returns false when it should be true and vice versa
3	Line 365	return true;	change line 365 true to false	is_identifier returns false when it should be true and vice versa
4	Line 311	str.charAt(i+1)	change str.charAt(i+1) to str.charAt(i)	This fix resolves the issue of a possible out of bounds exception
5	Line 292	if (str.length() > 2 str.charAt(0)=='#' && Character.isLetter(str.charAt(1)))	change str.length > 2 to str.length == 2 and instead of operator use &&	This fix properly checks length for character constants
6	Line 378	if (str.equals(""))	Change the) in the if statement to (This fix properly checks for l paren instead of right paren
7	Line 425	single quote is not checked as a special symbol in is_spec_symbol but is checked in print_spec_symbol	Add if(c == '\') {return true}	This fix allows for a check for single quote
8	Line 338	return true;	Change line to return false	This fix allows for a false return if there is no closing quote found
9	Line 47	br.mark(4)	Change br.mark(4) to br.mark(1024)	This fix increases the read ahead limit so that reset may work correctly
10	Line 61	char unget_char(int ch, BufferedReader br)	Remove int ch as it isn't used	This fix removes int ch to remove unused code
11	Line 128	while (is_token_end(id,res) == false)	Possible infinite loop add check to end if false is always received	This fix allows for while loop to exit if in endless loop

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Faults Detected and Corrections

12	Line 484	System.exit(0)	Change System.exit(0) to return	This fix allows J-unit to run and not terminate
13	Line 80	if(fname==null fname.equals(""))	Remove fname.equals("")	Proper checking for null in java is fname == null
14	Line 468	fname = new String();	Comment out fname = new String();	Allows fname to get passed on to open_token_string