 ***East West University***

**Department of Computer Science & Engineering**

COMPILER PROJECT REPORT

**Course Title :**  Compiler Design

**Course Code :** CSE375

**Section :** 02

**Semester :** Fall 2019

**Submitted To:**

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Grammar

**grammar compiler;**

**root: header\_file mainfunction;**

**header\_file: '$' text;**

**text: 'Start';**

**mainfunction: 'mainfunction:' content;**

**content: '['inside\_main']';**

**inside\_main: (statement)+;**

**statement: expression**

**|ID '=' expression**

**|ID '++'**

**|ID '--'**

**|if\_condition**

**|loop**

**;**

**expression: expression('\*'|'/') expression**

**| expression ('+'|'-') expression**

**|INT**

**|ID**

**| '(' expression ')'**

**;**

**condition: ID relational\_op expression;**

**if\_condition: 'jodi' '('condition')' '[' (statement)\* ']';**

**loop: 'loop' '('condition')' '[' (statement)\* | 'break' ']';**

**relational\_op:'>'|'<'|'>='|'=='|'<='|'!=';**

**INT:[0-9]+;**

**WS : [ \r\n\t]+ -> skip ;**

**ID:[a-z|A-Z]+;**

**INPUT**

**$ Start**

**mainfunction:**

**[**

**jodi(a > 4)**

**[**

**a = 30 \* 4**

**b = a + (10\*8)**

**]**

**loop(x > 11)**

**[**

**x=x+5**

**x++**

**jodi(x == 50)**

**[**

**break**

**]**

**]**

**jodi(b < 14)**

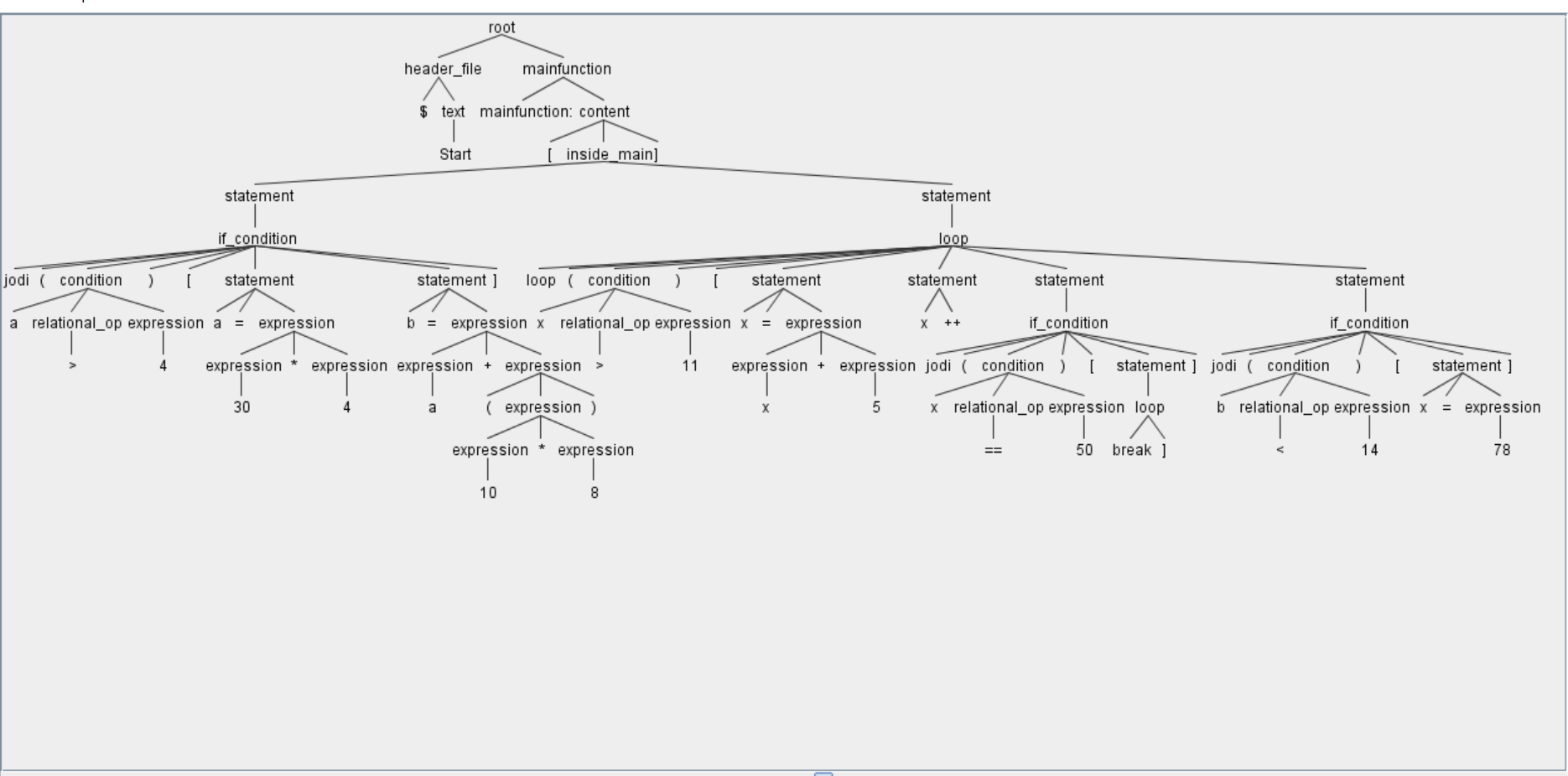
**[**

**x = 78**

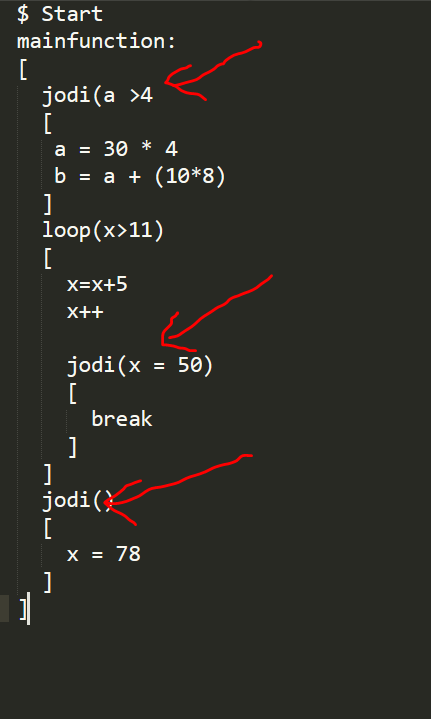
**]**

**]**

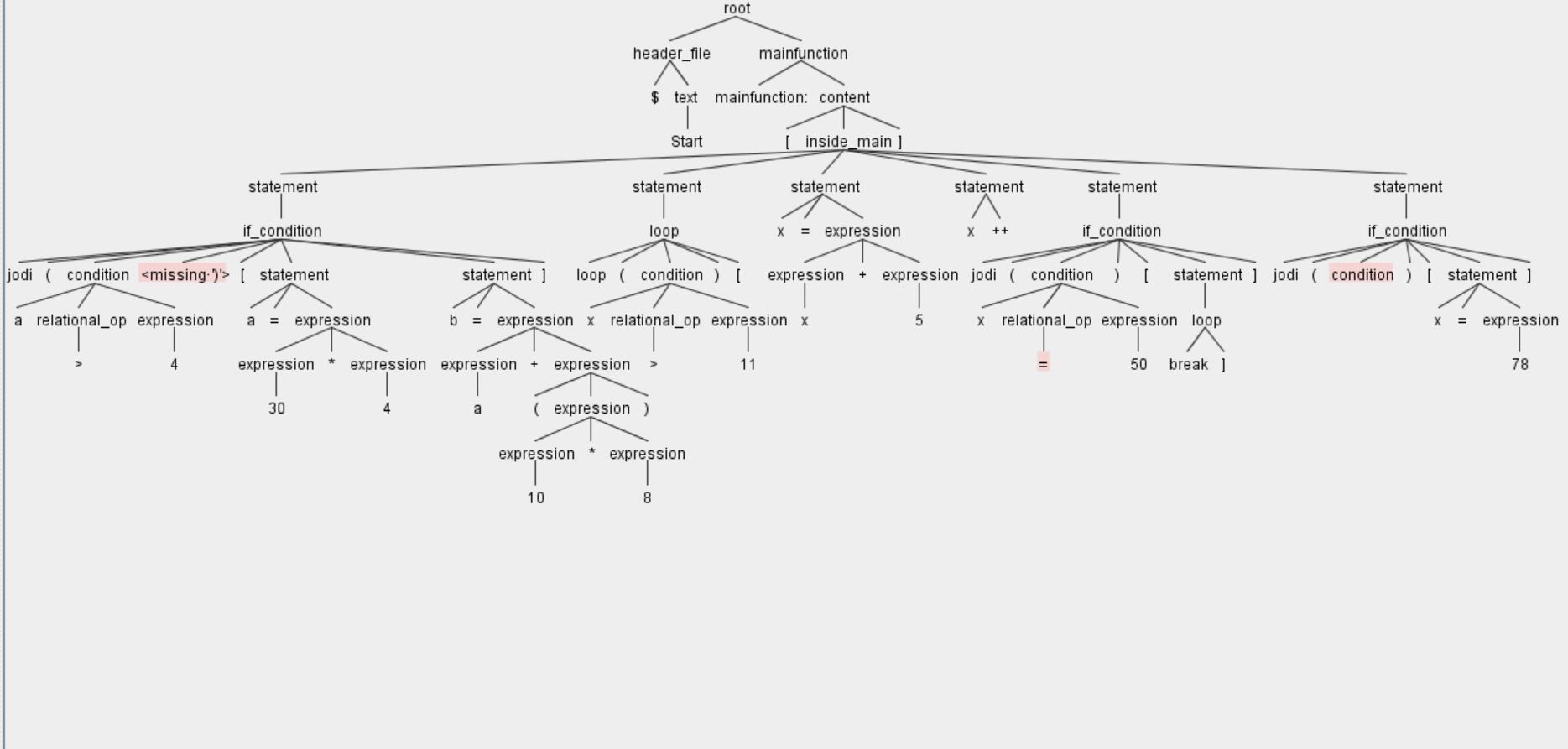
**PARSE TREE OF INPUT**

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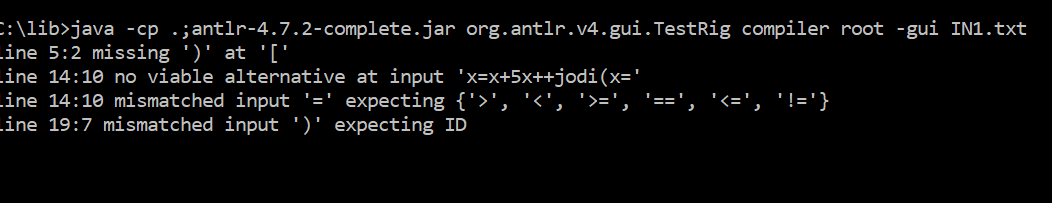
**INPUT WITH ERRORS**

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**ERROR SHOWING IN PARSE TREE**

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**ERROR SHOWING IN CMD**

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