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**For Statement Constructions**

<for\_loop> = **for (** <for\_assign> **;** <foor\_bool\_exp> **;** <for\_update> **)**

<statement\_list>

**end**

<for\_assign> = <assignment> | λ

<foor\_bool\_exp> = <boolean\_expression> | λ

<for\_update> = <update\_exp> | <for\_assign>

<update\_exp> = INT\_VAR <update\_sign> | <update\_sign> INT\_VAR

<update\_sign> = **++** | --

Comments: Case there is no boolean expression (<for\_bool\_exp> = λ ), it is an infinite loop. The <for\_assignment> can be done with any kind of variable (int, real, cheese, hiphip…) however, the update expressions (++a, a++, --a, a--) are only allowed for integer variables.