(Please ensure this uses only tokens detected in your P1, no exceptions)

<program> -> <vars> <block>

<block> -> **{** <vars> <stats> **}**

<vars> -> empty | **declare Identifier := Integer ;** <vars>

<expr> -> <N> **-** <expr> | <N>

<N> -> <A> / <N> | <A> * <N> | <A>

<A> -> <M> **+** <A> | <M>

<M> -> ***** <M> | <R>

<R> -> **(** <expr> **)** | **Identifier** | **Integer**

<stats> -> <stat> <mStat>

<mStat> -> empty | <stat> <mStat>

<stat> -> <in> **;** | <out> **;** | <block> | <if> **;** | <loop> **;** | <assign> **;** | <goto> ; | <label> ;

<in> -> **in Identifier**

<out> -> **out** <expr>

<if> -> **iffy [** <expr> <RO> <expr> **] then** <stat>

<loop> -> **loop [** <expr> <RO> <expr> **]** <stat>

<assign> -> **Identifier :=** <expr>

<label> -> **label Identifier**

<goto> -> **goto Identifier**

<RO> -> **<** | **< <** (two tokens >) | **>** | **> >** (two tokens) **| ==** (one token ==) | **< >** (two tokens)