**Use case:** FOR Statement

**Primary actor:** computer

**Goal in context:** The FOR Statement allows execution of the following statement block (between begin … end blocks) until a counter is exceeded.

**Preconditions:** Program has been successfully parsed.

**Post Condition:** Block statement has been executed the specified number of times.

**Trigger:** The computer encounters the FOR token and FOR statement event is triggers.

**Scenario:**

|  |  |
| --- | --- |
|  | 1. The tokens following the FOR token until the END state are passed to the FOR method in a container of tokens. |
|  | 1. The first token or series of tokens are used to set the initial value for the counter until the DO toke is encountered. |
|  | 1. The next sets of tokens are used to set the terminator for the counter until the DO token is encountered. |
|  | 1. The statements following the BEGIN token is executed as normal. |
|  | 1. Once the END token is encountered the counter is incremented by one and compared to the terminator. If less than the terminator than goto step #4. |
|  | 1. Once terminator has been reach the computer will skip the following begin end block. |

**Exceptions:**

2. Token or series must be a real number else syntax error is encountered and computer displays “Error real number must be used line # X.”

3. Token or series must be a real number else syntax error is encountered and computer displays “Error real number must be used line # X.”

**Priority:**

**When available:**

**Frequency of use:**

**Channel to actor:**

**Secondary actors:**

**Channels to secondary actors:**

**Open issues:**

1.