Transpiling Flex code

- 1. Read a line
 - a. It could be composed of multiple statements separated by a semicolon, so split it at the semicolons to get individual statements. Add them all to the *statement queue*.
- 2. Process a statement
 - a. If the statement conforms to any one of the language's regular expressions, parse it and extract entities from it, storing them as a dictionary in the *parsed statement list*. For example, the statement,

```
SomeFunction(arg1, arg2, arg3)
```

Will match the regular expression for the beginning of a function definition (since it's not indented, it cannot be a function call), and will be stored in the form:

- b. Otherwise, pass it as a query to the Rasa server running locally.
 - The server will parse the statement and will return a response in JSON format.
 As an example, the response returned after parsing the statement,

for each vertex v in graph.vertices

would look like:

```
'value': 'graph.vertices',
    'confidence': 0.984
}],
'loop_as': [{
    'value': 'v',
    'confidence': 0.975
}]
}
```

- ii. If all entities have a confidence above a minimum threshold (say 90%), reduce the above response and store it in a dictionary in the *parsed statement list*, as in step 2.a. Otherwise, report an error at that line.
- 3. Parse each entry (line) from the *parsed statement list*, keeping track of the block and the scope of the variables, and convert it to the target language. If a required value is missing, report an error at the line 1+1, where 1 is the index of the line in the *parsed statement list*.