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CS 3040 001

Dr. Hasker

11.10.2022

Assignment 4 – Complex ANTLRS

I worked alone on this project. Note: The input files specified are those from assignment 3

Version of ANTLR:

```
PS C:\Users\rosynekp\OneDrive - Milwaukee School of Engineering\Desktop\cs 3040\assignments\a4> antlr4
ANTLR Parser Generator  Version 4.11.1
```

input01.txt

```
PS C:\Users\rosynekp\OneDrive - Milwaukee School of Engineering\Desktop\cs 3040\assignments\a4> python plan.py ./tests/input01.txt
Area for building ONE: 256 square feet.
Total area: 256 square feet.
```

input02.txt

```
PS C:\Users\rosynekp\OneDrive - Milwaukee School of Engineering\Desktop\cs 3040\assignments\a4> python plan.py ./tests/input02.txt
Area for building HOUSE: 8550 square feet.
Area for building SCHOOL: 27900 square feet.
Total area: 36450 square feet.
```

input03.txt

```
PS C:\Users\rosynekp\OneDrive - Milwaukee School of Engineering\Desktop\cs 3040\assignments\a4> python plan.py ./tests/input03.txt
Area for building MLH: 5812 square feet.
Area for building ATTACHED: 15000 square feet.
Area for building WORKSPACE: 5184 square feet.
Total area: 25996 square feet.
```

input04.txt

```
PS C:\Users\rosynekp\OneDrive - Milwaukee School of Engineering\Desktop\cs 3040\assignments\a4> python plan.py ./tests/input04.txt
Syntax error in input around line 3:    Unexpected token : CAFETERIA
```

input05.txt

```
PS C:\Users\rosynekp\OneDrive - Milwaukee School of Engineering\Desktop\cs 3040\assignments\a4> python plan.py ./tests/input05.txt
Reference to missing floor BATHS
```

input06.txt

```
PS C:\Users\rosynekp\OneDrive - Milwaukee School of Engineering\Desktop\cs 3040\assignments\a4> python plan.py ./tests/input06.txt
Duplicate floor CLASSES
```

input07.txt

```
PS C:\Users\rosynekp\OneDrive - Milwaukee School of Engineering\Desktop\cs 3040\assignments\a4> python plan.py ./tests/input07.txt
Area for building CC: 8850 square feet.
Area for building DH: 41693 square feet.
Area for building SCI: 21248 square feet.
Area for building LIB: 32000 square feet.
Total area: 103791 square feet.
```

input08.txt

```
PS C:\Users\rosynekp\OneDrive - Milwaukee School of Engineering\Desktop\cs 3040\assignments\a4> python plan.py ./tests/input08.txt
Syntax error in input around line 3:    Unexpected token : HALL
```