**CSSE 413: Artificial Intelligence**

Rudimentary NLP Lab Manual

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1. [25 pts] Please describe what sentences your robot can successfully parse. Please use a context-free grammar to document them.
2. Up/down/left/right

S-> {up, down, left, right}

2. S->A move up/down/left/right

A-> {move, go}B

B->{up, down, left, right}

3. S->B please move/go up/down/left/right

A->{please}

B->A {move, go} C

C->{up, down, left, right}

4. S->A move/go up/down/left/right please

A->{move, go}BC

B->{up, down, left, right}

C->{please}

5. S->A please move/go up/down/left/right quickly

A-> A {move, go}D

B->{up, down, left, right}

C->{please}

D->B{quickly}

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