HW 2

Jonathan Gonzalez

CSCI-350

Question 1

1. A dog fell quickly!
2. A smart cat slept?
3. dog!?

Question 2

No, it's not. There is only one path to achieve specific answers.

Question 3

The largest string is infinite due to the infinite loop in `<verb> <adverb>` which goes to `<verb>` again.

Question 4

Yes, it is.

```
 cat!!

<words><puctuation>
<noun><punctuation><punctuation>
<noun><punctuation><punctuation>
cat<punctuation><punctuation>
cat!<punctuation>
cat!!
```

Question 5

Yes, it is.

```
 The ugly dog slept slowly.

<words><puctuation>
<article> <ns> <verb><punctuation>
<article> <adjective> <noun> <verb><punctuation>
<article> <adjective> <noun> <verb> <adverb><punctuation>
The <adjective> <noun> <verb><punctuation>
The ugly <noun> <verb> <adverb><punctuation>
The ugly dog <verb> <adverb><punctuation>
The ugly dog slept <adverb><punctuation>
The ugly dog slept slowly<punctuation>
The ugly dog slept slowly.
```

Question 6

No, it's not.

```
 A ugly balloon fell slept popped.

<words><punctuation>
<article> <ns> <verb><punctuation>
<article> <adjective> <noun> <verb><punctuation>
<article> <adjective> <noun> <verb> <verb>!!???...
```

Question 7

```
 A ugly balloon fell!

<words><punctuation>
<article> <ns> <verb><punctuation>
<article> <adjective> <noun> <verb><punctuation>
<article> <adjective> <noun> <verb><punctuation>
A <adjective> <noun> <verb><punctuation>
A ugly <noun> <verb><punctuation>
A ugly balloon <verb><punctuation>
A ugly balloon fell<punctuation>
A ugly balloon fell!
```