

Practice Q0.

- Given the following grammar, respond on PollEv.com/compunc

phrase → article noun verb
article → 'the' | 'a'
noun → 'person' | 'dog'
verb → 'spoke' | 'ran' | 'ate'

- A generated string is a sequence of **terminals**.

 1. Generate a string, that *is not* a valid phrase.
 2. Generate a string that *is* a valid phrase.
 3. How many possible strings can be generated that are valid phrases?

Practice Q1.

- Given the following grammar, respond on [PollEv.com/compunc](https://www.pollEv.com/compunc)

phrase → article noun verb | phrase 'and' phrase
article → 'the' | 'a'
noun → 'person' | 'dog'
verb → 'spoke' | 'ran' | 'ate'

- A generated string is a sequence of **terminals**.

 1. Generate a string that *is* a valid phrase and uses the terminal 'and'.
 2. How many possible strings can be generated that are valid phrases?

Practice Q2.

Are the three following strings valid **exprs** given the grammar?

expr \rightarrow **digit** | **op**

op \rightarrow **add** | **mul**

add \rightarrow **expr** '+' **expr**

mul \rightarrow **expr** '*' **expr**

digit \rightarrow '0' | '1' | '2' | '3' | '4' |
'5' | '6' | '7' | '8' | '9'

2 + 3 * 4

1 + * 4

2 * 11