First Follow

Calculator for finding first, follow and predict sets

GitHub

Grammar

```
product -> computer
product -> smartphone
price -> non_zero_digit digit
price -> non_zero_digit
non_zero_digit -> 1
non_zero_digit -> 2
non_zero_digit -> 3
non_zero_digit -> 4
```

Run

Predict sets

#	Sets
1	car, computer, smartphone
2	car, computer, smartphone
3	car, computer, smartphone
4	car
5	computer
6	smartphone
7	1, 2, 3, 4, 5, 6, 7, 8, 9

#	Sets
8	1, 2, 3, 4, 5, 6, 7, 8, 9
9	1
10	2
11	3
12	4
13	5
14	6
15	7
16	8
17	9
18	0, 1, 2, 3, 4, 5, 6, 7, 8, 9
19	0
20	1
21	2
22	3
23	4
24	5
25	6
26	7
27	8
28	9

First sets

#	Sets
start	car, computer, smartphone
wishlist	car, computer, smartphone
product	car, computer, smartphone
price	1, 2, 3, 4, 5, 6, 7, 8, 9
non_zero_digit	1, 2, 3, 4, 5, 6, 7, 8, 9
digit	0, 1, 2, 3, 4, 5, 6, 7, 8, 9

Follow sets

#	Sets
start	-|
wishlist	-|
product	$
price	-|, ;
non_zero_digit	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, -|, ;
digit	-|, ;, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

How to enter grammar?

- One line — one rule
- Rule consists of two parts: left and right
- Left and right parts are separated by "->"

- Left part can contain only one nonterminal
- Right part can contain terminals and nonterminals or empty chain
- Terminals and nonterminals in rule's right part must be separated by space
- Empty chain must contain only one character — ε