Week 2: Analyze
Problem
Array Type: Stack (Last In First out)
Push: 'r' 'a' 'c' 'e' 'c' 'a' r'
Push: 'r', 'a', 'c', 'e', 'c', 'a', 'r' Pop: 7 6 5 4 3 2 1
= racecar"
Same word if reversed order
P. 41 'S' '+1 'S' 'S' 'S' 'S' 'S' 'S' 'S' 'S' 'S' 'S
Push: 'S', 't', 'r', 'e', 's', 's', 'e', 'd' Pop: \$ 4 3 2 1
> result = "desserts"
Not the same word
Push: a, ', 'n', 'u', 't', ', 'f', 'o', 'r', 'a', ', 'j', 'a', 'r', 'o', 'f', '' 1
t'\n'\n'\a'
23 22 21 20 19 18 17 16 15 19 13 12 11 10 9 8 7 6 5 t', 'N', 'N', 'A' Pop: 4 3 2 1
> result = "unut fo raj a vot tun a"
Not the same phrase
Problem 2
String = 537 t* string: 62 + 53 - 1
Push: 5 3 7 Push: 6.2
Push: 5, 3, 7 Push: 6, 2 + \Rightarrow Pop (7) ^{OP2} , (3) ^{OP1} + \Rightarrow Pop (2) ^{OP2} (6) ^{OP1}
$\Rightarrow 3+7 \Rightarrow 10 \Rightarrow 6+2 \Rightarrow 8$
Prish : 10 Prish : 8
* > Pop (10) P) (5) op) Push: 5,3
* $\Rightarrow pop(10)^{p}, (5)^{op}$ Push: 5, 3 $\Rightarrow 5*10 \rightarrow 50$ $\Rightarrow pop(3)^{p}, (5)^{op}$
push: 50 $\Rightarrow 5-3 \Rightarrow 2$
Puch : 7.
$/\Rightarrow \text{bib}: (7)_{\text{obs}}(8)_{\text{obs}}$
$\Rightarrow 812 \Rightarrow 4$
Push: 4

Invalid (ase 1:
1+672
cannot perform addition (Stark. Count = 1 when item = "+"
Start: Count of Moont of
Invalid Case 2:
70/23
Dark : 7 0
push: 7,0
/ => pop: 0°, 7°! => 7/0 (undefined)
=> 7/0 (undefined)
Involute case 3
a b c d
Invalid case 4
5 3 7 ₊ * 2
Push: 5, 3, 7 + \Rightarrow Pop (7) ^{PZ} , (3) ^{OP1}
+ 3 pop (1), (3),
$\Rightarrow 3+7 \Rightarrow 10$
Push: 10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\Rightarrow 5^*10 \rightarrow 50$
push: 50, 2
Stack. Count = 2