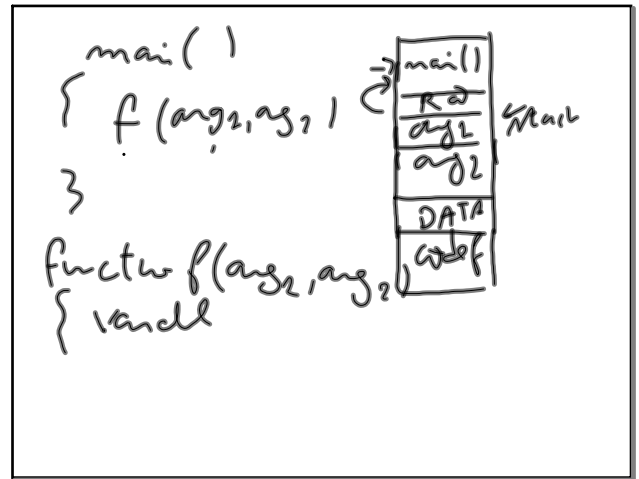
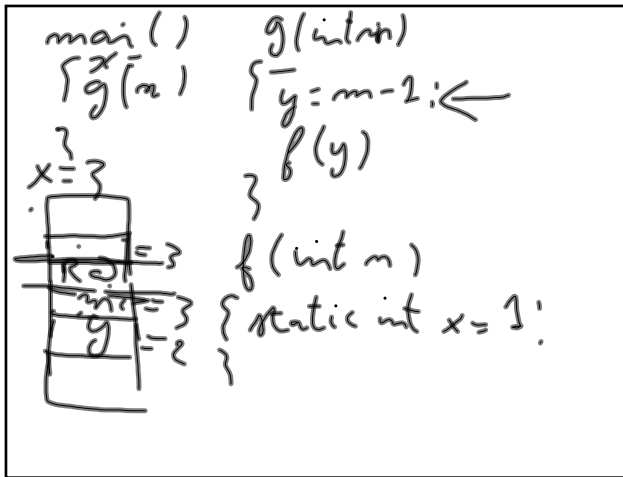


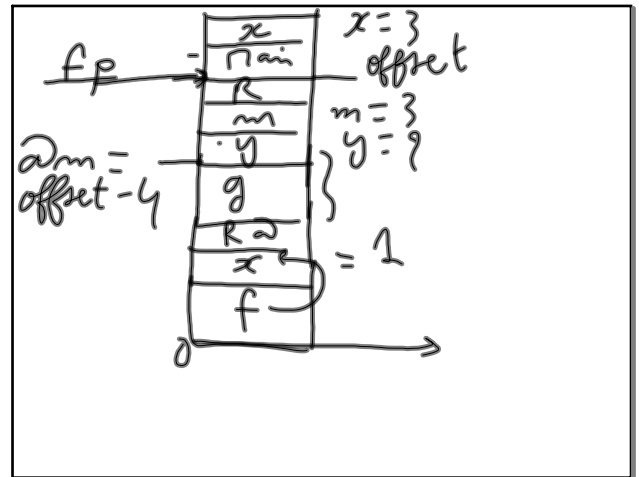
Aug 13-4:53 PM



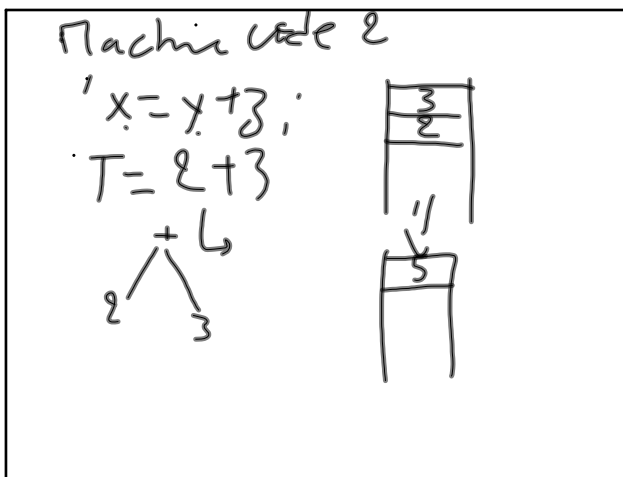
Aug 13-4:55 PM



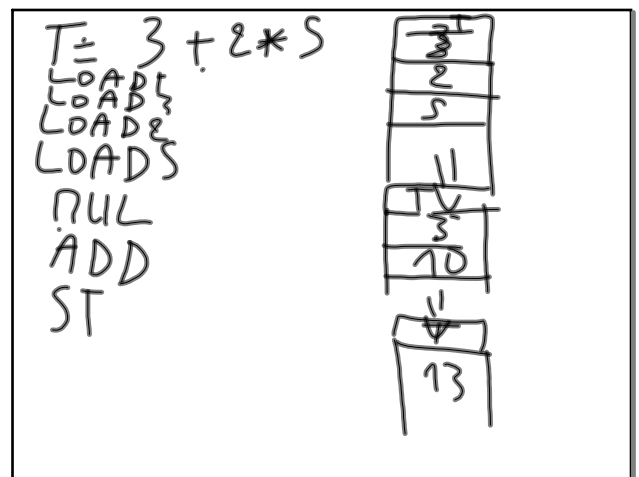
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Aug 13-5:03 PM



Aug 13-5:08 PM



Aug 13-5:12 PM

LOADT  
LOAD3  
LOAD2  
LOADS  
NUL  
ADD  
store

T
3
2
5

=>

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LL(1)  
 $A \rightarrow aC / aB$   
 Left factorij  
 $A \rightarrow aA'$   
 $A' \rightarrow C | B$

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1. first . follow

	first	Follow
S		
A		
B		

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2. LL(1) Parsing table

	a	b	c	\$
S	$A \rightarrow aC$ $A \rightarrow aB$			
A				
B				

3-

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$S \rightarrow (S) / \epsilon$  ( ), (( ))

	FIRST	Follow
S	(, $\epsilon$	), \$, )

$S \rightarrow (S)$  |  $S \rightarrow \epsilon$  |  $S \rightarrow \epsilon$   
 (( ))

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Input	Match
(( ))\$	S:\$
↑ (( ))\$	(S)\$
(( ))\$	S)\$
(S))\$	(S))\$
))\$	))\$

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$S \rightarrow AaAb / BbBa$   
 $A \rightarrow \epsilon$   
 $B \rightarrow \epsilon$

	first	follow
S	a, b	\$
A	$\epsilon$	a, b, $\bar{a}$
B	$\epsilon$	b, a

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	a	b	\$
S	$S \rightarrow AaAb$	$S \rightarrow BbBa$	
A	$A \rightarrow \epsilon$	$A \rightarrow \epsilon$	aa
B	$B \rightarrow \epsilon$	$B \rightarrow \epsilon$	bb

$a a \$$        $A a A b S \$$   
 $a A b$

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$S \rightarrow AB$   
 $A \rightarrow \epsilon$   
 $B \rightarrow \epsilon$

$follow(B) = follow(S)$   
 $follow(A) = first(B)$

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$ifst \rightarrow If (Exp) Then I$   
 $Exp \rightarrow E_1 == E_2$

$\left\{ \begin{array}{l} \text{if } E_1 \cdot \text{type} \\ \neq E_2 \cdot \text{type} \\ \text{then error} \end{array} \right.$

$integer T_1$   
 $float T_2$   
 $T_1 = 2 + 5$   
 $T_2 = 3.5 + 4.8$

$if (T_1 == T_2)$

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$T_2 = 2 + 3$   
 $T_2 = 2.4 + 3.5$

$T_2 \cdot \text{type} = float$      $T_1 \cdot \text{type} = int$

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```

mai() f(m)
{ x = 2; { int p;
  y = 3; }
  f(x)   }
  g(y)   }
}

```

$\rightarrow$      $\rightarrow$      $\rightarrow$      $\rightarrow$      $\rightarrow$

x
y
2.4
3.5
2
3
2.4
3.5

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