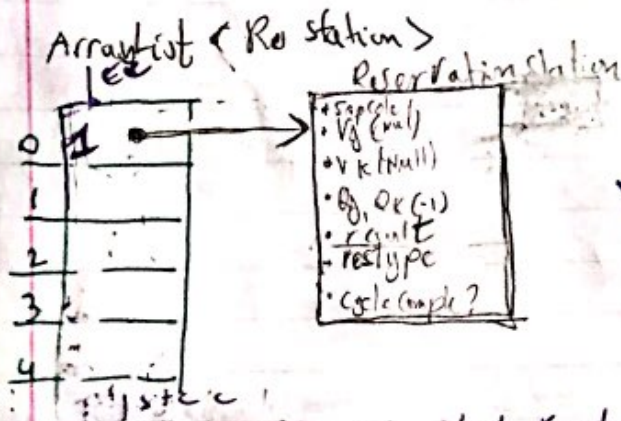


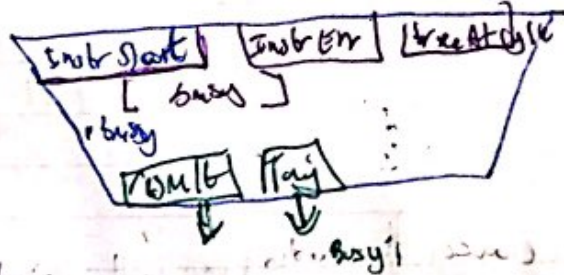


if (unit busy) = true && previous broadcast == true  
broadcast

A more detailed approach of My Implementation of Tomasulo Algorithm.

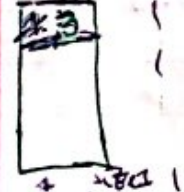


• Need an updateRS (Res class)  
✓ call is performed!  
↳ set busy state (3).



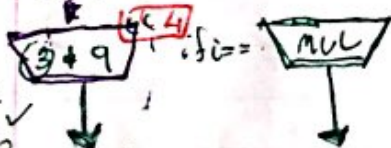
Find first RS = Arraylist Empty.  
Because no snapshot = no old value

2nd updateRS 3cc  
update unit (6)



Reservation Station

• unit free

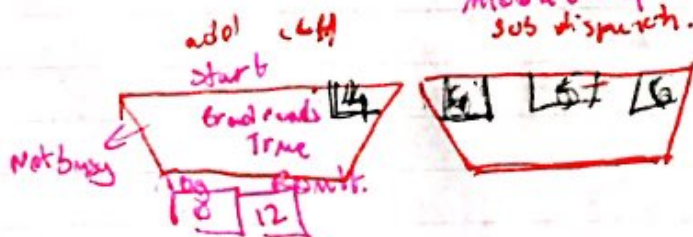
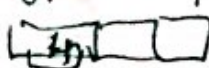


sub start = 2  
sub end = 3  
free = 4

i = add, broadcast

↳ broadcast (add unit Tail, add result)

↳ capture (tag, result, reservation)



previous = true

sub 4 == current broadcast  
previous broadcast = broadcast

find rs index written in op



	Issue	Ex	W B	Comment
wld R2 R4 R6	1	2	4	
MUL <del>R2</del> R3 R5	2	3	13	
21 DIV <del>R2</del> R4 R1	3	4	54	Free state
MUL R1 R4 R1	14	55	65	ESU: No free state

$R1 = 21 + 4$

	Busy	Op	V <sub>1</sub>	V <sub>2</sub>	Q <sub>0</sub>	Q <sub>1</sub>	Result	Op match	Complete cycle
R0 add	✓ 1	add x	3	0	-1	-1			4
R1 add									
R2 add									
R3 MUL	✓ 2	MUL x	21	4	-1	-1			13
R4 MUL	✓ 3	DIV x	3	84	1	1			63

21 x 3

	RF	RAT							
F0	3	1							
F1	4	2							
F2	6	12							
F3	21								
F4	3	54							
F5	4								
F6	9								
F7	0								

Final 0 2  
 1 : 94  
 2 : 12  
 3 : 21  
 4 : 21  
 5 : 4  
 6 : 9  
 7 : 0