

Week 1 Pointer & ADT

Nama : Aditya Bayu Pradibta

NIM : 1201230036

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	x	y	p1	p2
	5	10		
p1←&x	5	10	x200	x300
*p1←7	7	10	x200	x300
p2←&y	7	10	x200	x400
x←*p2	10	10	x200	x400
x←y	10	10	x200	x400
p1←&y	10	10	x400	x400
p2←&x	10	10	x400	x200
p2←&x	10	10	x400	x200
p1←p2	10	10	x200	x200
*p2←6	6	10	x200	x200

Slide 17

	x	y	p1	p2
	5	10		
p1←&y	5	10	x400	x300
p2←&x	5	10	x400	x200
*p1←*p2	5	5	x400	x200
p2←&x	5	5	x400	x200
*p2←7	7	5	x400	x200
p1←p2	7	5	x200	x200
p1←&x	7	5	x200	x200
*p1←y	5	5	x200	x200

Slide 18

	a	b	c	p1	p2	p3
	10	15		1	2	3
p1←&b	10	15		b100	2	3
p2←p1	10	15		b100	1	3
c←27	10	15	27	b100	1	3
p1←&c	10	15	27	c100	1	3
a←*p1	27	15	27	c100	1	3
p3←&b	27	15	27	c100	1	b100
*p2←8	27	8	27	c100	8	b100

Slide 19

	a	b	c	p1	p2	p3
	10	15		1	2	3
$c \leftarrow 27$	10	15	27	1	2	3
$p1 \leftarrow \&a$	10	15	27	a100	2	3
$p2 \leftarrow \&b$	10	15	27	a100	b100	3
$*p1 \leftarrow c$	27	15	27	a100	b100	3
$a \leftarrow *p2$	15	15	27	a100	b100	3
$b \leftarrow 6$	15	6	27	a100	b100	3
$p3 \leftarrow \&b$	15	6	27	a100	b100	b100
$p3 \leftarrow \&c$	15	6	27	a100	b100	c100
$*p1 \leftarrow *p3$	27	6	27	a100	b100	c100