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tugas 2

- exercise 1

Dictionary

x, y : Integer

P_1, P_2 : pointer to integer

Algorithm

$y \leftarrow 5$
 $x \leftarrow 10$

P_1



$\times 100$

x



$\times 200$

P_2



$\times 300$

y



$\times 400$

$| P_1 \leftarrow \&x$
 $\&P_1 \leftarrow 7$

P_1



x



$\times 200$

P_2



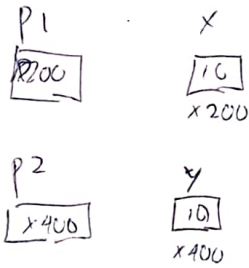
$\times 300$

y

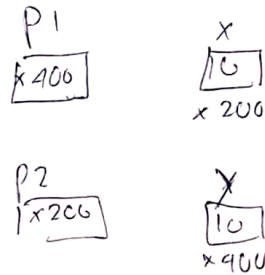


$\times 400$

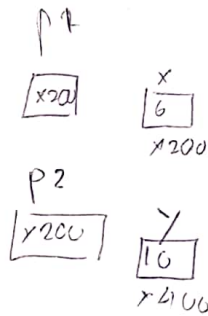
2. $P_2 \leftarrow 4y$
 $x \leftarrow *P_2$



3. $x \leftarrow y$
 $P_1 \leftarrow 8y$
 $P_2 \leftarrow 8x$



4. $P_2 \leftarrow 8x$
 $P_1 \leftarrow P_2$
 $*P_2 \leftarrow 6$



Exercise 2

Dictionary

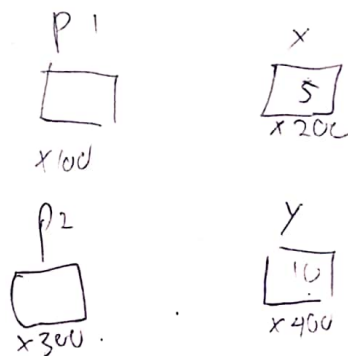
x, y: integer

P1, P2 pointer to integer

Algorithm

$x \leftarrow 5$

$y \leftarrow 10$



$$P_1 \leftarrow 8y$$

$$P_2 \leftarrow 8x$$

$$*P_1 \leftarrow *P_2$$

P_1	x
$\boxed{x400}$	$\boxed{5}$ $x200$
P_2	y
$\boxed{x200}$	$\boxed{5}$ $x400$

$$P_2 \leftarrow 8x$$

$$*P_2 \leftarrow 7$$

$$P_1 \leftarrow P_2$$

P_1	x
$\boxed{x200}$	$\boxed{7}$ $x200$
P_2	y
$\boxed{x200}$	$\boxed{5}$ $x400$

$$3 P_1 \leftarrow 8x$$

$$*P_2 \leftarrow y$$

P_1	x
$\boxed{x200}$	$\boxed{5}$ $x200$
P_2	y
$\boxed{x200}$	$\boxed{5}$ $x400$