

Name : 김현우 ID: 218002101

1.

(a) (1) (2) (3) (5) (7) (8) (9)

(b) (1) (2)

2.

(a) 0.91 ns

(b) (2)

3. (a)

(1) 0 (2) X (3) 0 (4) 0 (5) X

(b)

Ans) (3)

4.

Ans) speed up: 4

5.

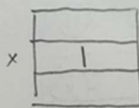
(a) 1. (b) 100 (c) 2.

6.

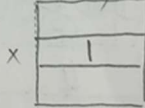
(a).

C code:  $x = 2 * x + 1;$

cache

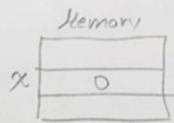
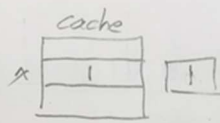


memory

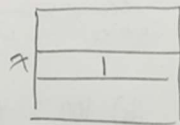
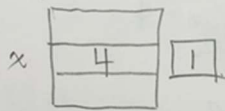


(b)

C code:  $x = 2 * x + 1$



C code:  $x = x + 3$



7.

(a) 32 words

(b) 64 entries

Block  $\rightarrow$  5 bit  $2^5 = 32$

Index  $\rightarrow$  6 bit  $2^6 = 64$

8.

(a) 9 (b) 7 (c) 10

9.

(a) A (b) C

10.

(a) T

(b) F

(c) T

(d) T

(e) T

(f) T