운영체제 보고서

과제 #07: 8장 연습문제

과목 명: 운영체제

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8.12

```
1KB = 1024 byte = 2'0
단계 1, 주소를 심원수 → 이 진수
단계2. Page number 부분과 offsel 부분드叉 나누기
단제3, offsetzt page no 를 이건수 → 십신수
(a) 3085
  1. 0/3085 -> 110000001101
             2 1542 .... 1
             2 771 .... 0
             2 385 --- 1
             2 | 147 ··· 0 | 2 | 48 ··· 0 | 2 | 24 ··· 0 | 2 | 12 ··· 0 | 2 | 6 ··· 0 | 2 | 6 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 2 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 | 3 ··· 0 |
         2. 11/000000101 3. 011 = 8, 0000001101=13
                                                                                                           Page no. = 8
               paje no. offset
                                                                                                              page offset = 13
  (6) 42095
     1. 42095 => 1010010001101111
                                                                                        3. 101001 = 41, 000 116 1(11 = 111
     2, 10 100 1600 110 1111
                 Page no. off set
                                                                                                         Page no. = 41
                                                                                                          page offset = 111
  (c) 215201
   1. 215201=> 110100100010100001
                                                                                               3, 11010010 = 210,0010100001 = 161
   2. 110100196010100001
                                                                                                           Poge No. = 210
   Page no. offset
                                                                                                          Poge offset = 161
(d) 650000
  1, 650000 => 100111101011 00010000
                                                                                            3, 1001111 010 = 634, 11000 10000 = 784
   2. 1001111010/100010000
                                                                                                               Poge no. =639
               Page no. Page offset
                                                                                                               Pofe offset = 784
 (e) 2000001
  1, 2000001 => 1111010000 10010000001
  2. 1111010000 /0010000001 3. 11110100001=1953,0010000001=129
                                                                                                               Page no. =1953
                                                               offset
               Page no.
                                                                                                                 page offset = 129
```

Virtual address!
$$21-bit$$

physical address: $16-bit$

page size: $2-kB = 2^{11}$

(a) $2^m = na$ of pages x page size

 $2^{21} = no$ of pages $x = 2^{11}$
 $\therefore no$ of pages $= \frac{2^{21}}{2^{11}} = 2^{10}$
 $\therefore no$ of pages $= 2^{10}$ pages

(b) $2^m = entries x page size$
 $2^{16} = entries x 2^{11}$
 $entries = 2^{16}/2^{11} = 2^{15}$
 $\therefore 32 = entries$

8.15

(a) logical address space
$$2^m = no$$
, of pages x page size

$$= 286 \times 4 \text{ kB}$$

$$= 2^8 \times 2^{12} = 2^{20}$$
(b) Number of physical address $\frac{1}{2}$ $\times 2^{12}$ the physical address space = 2^{∞}

$$= no. 6f \text{ frames } \times \text{ frame size}$$

$$= 64 \times 4 \text{ kB}$$

$$= 2^6 \times 2^{12} = 2^{18}$$

$$= 2^6 \times 2^{12} = 2^{18}$$

8.17

3.20		
Segment	Base	Length
0	219	600
1	2300	14
2	90	100
3	1327	580
4	1952	96.
(a) 0,430 Segment 0± 600= base 219 31 off (b) 1,10	set 130 01 = 3	physical house
Segment 1 = 3' base 23002+ of	Foot 10 0 1=3	physical out
(C) 2,500 segment 2억 길이 참 불가능	t 100°3 5	Do Het when
(d) 3,400 Segment 3e1 310 base 1327 2t of	1= 580=3 40 4set400°1=3	physical address= 1327+400=1727
(e) 4, 112 Segment 4의 원 따라서 참 불가	101 = 9602 1	