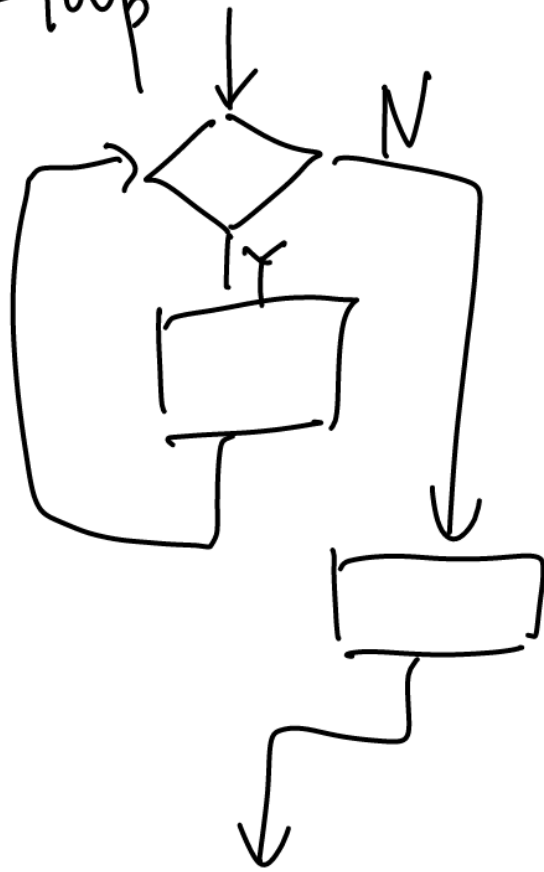
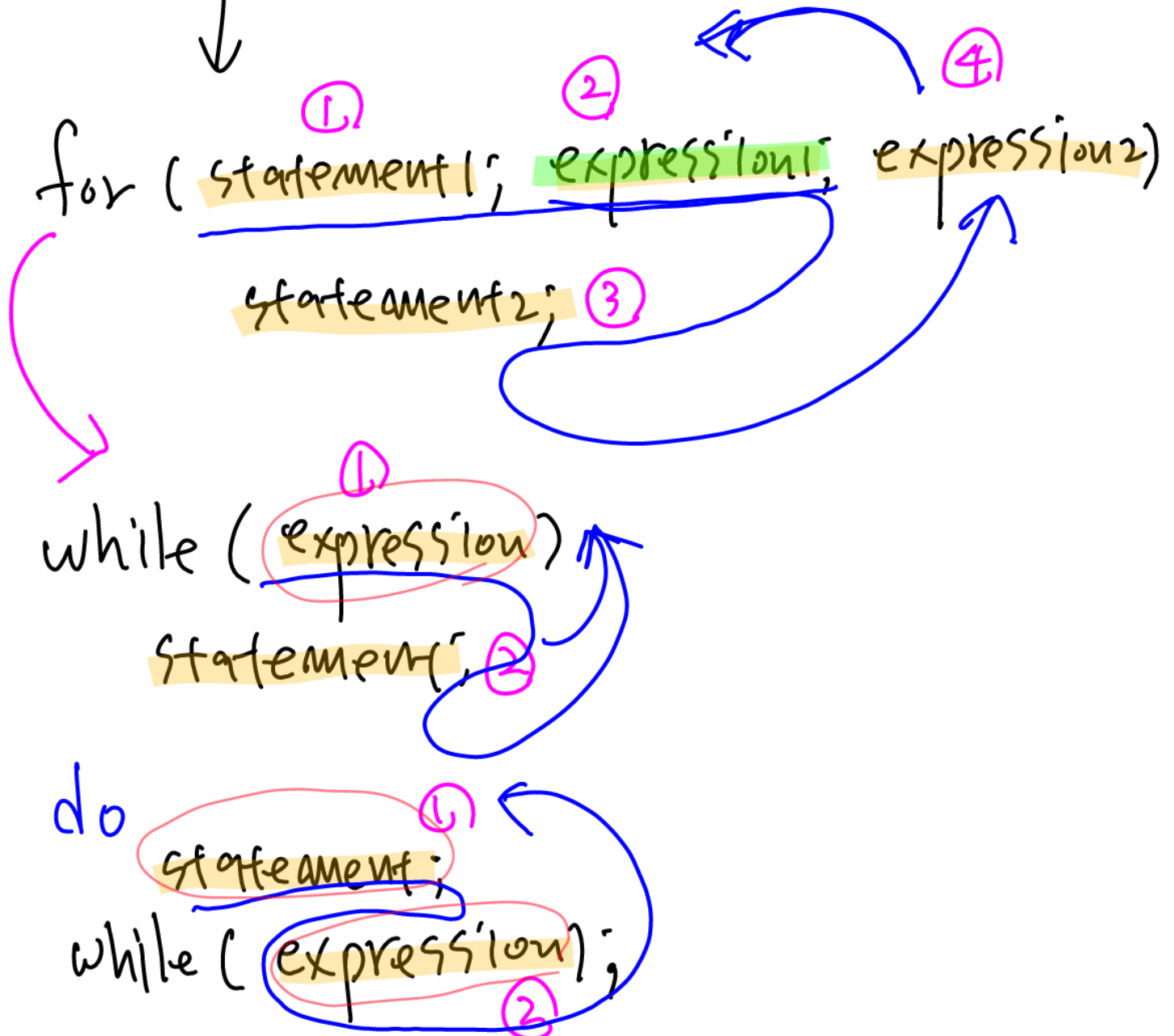
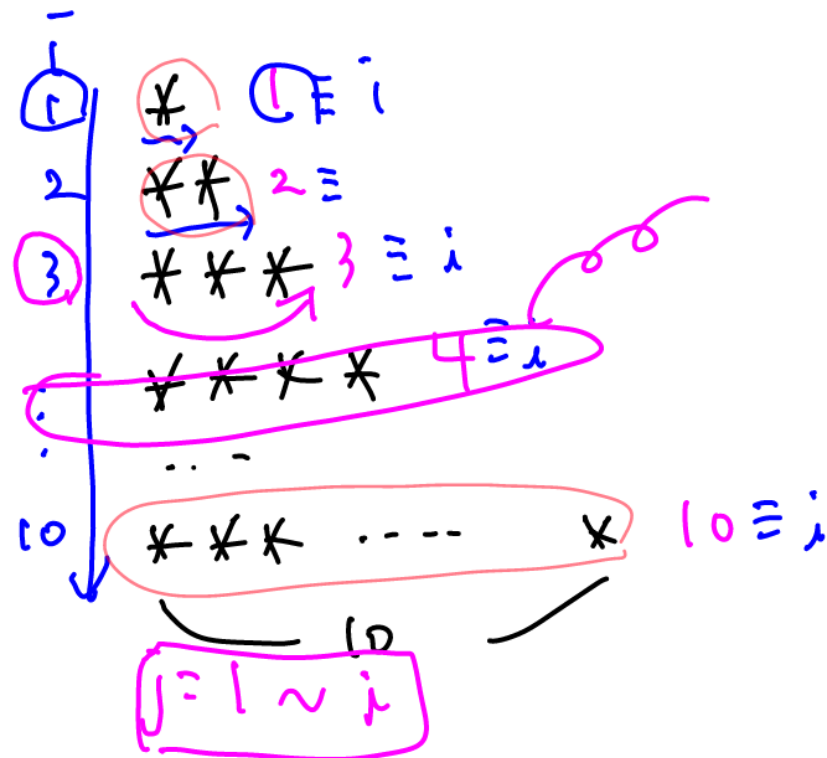


* loop



for - statement
 while - statement
 do ... while statement





* switch

switch (expression1)

{ [case expression2 :
Statement 1;] [...]

default :

Statement 2;

[break;

}
↓

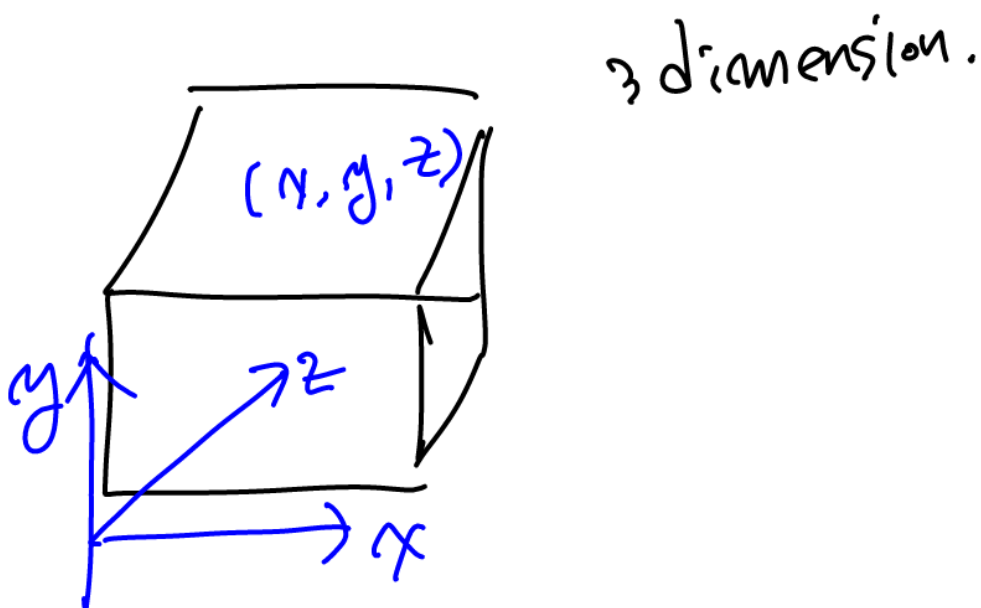
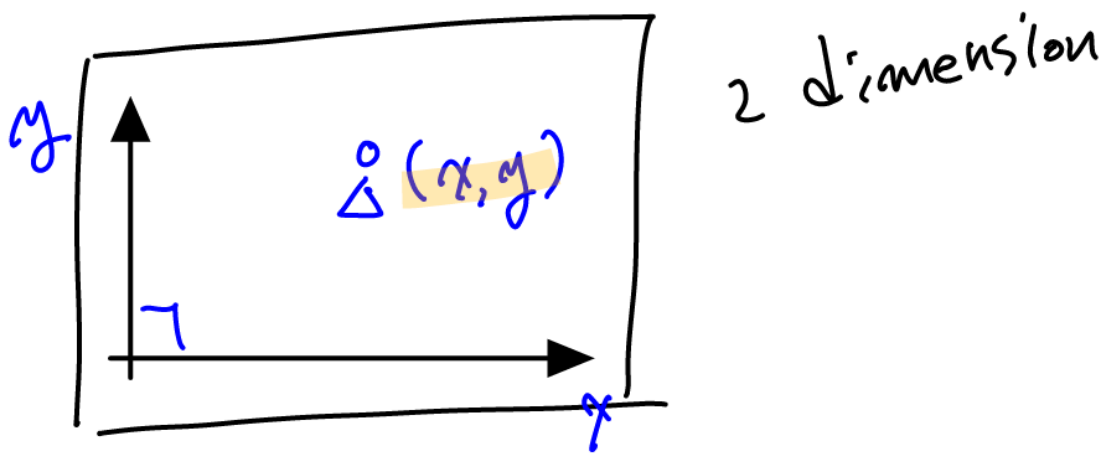
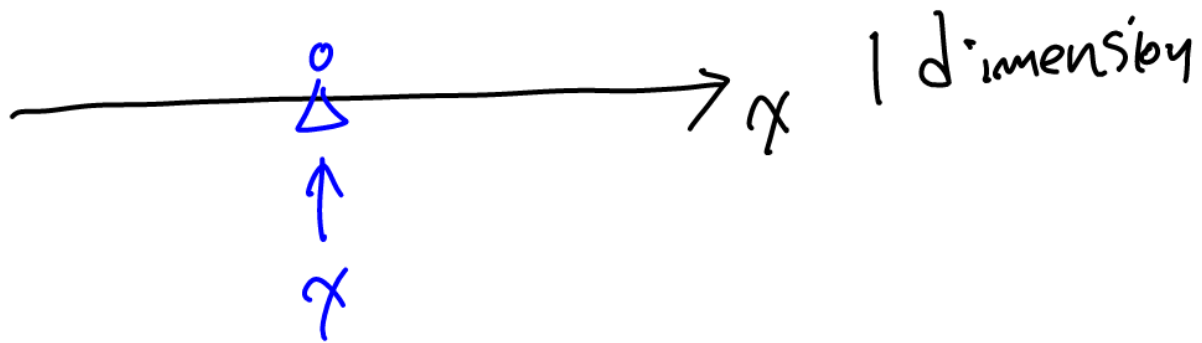
ex)	'a'	"abc"
	'h'	"hello"
	...	"nothing"

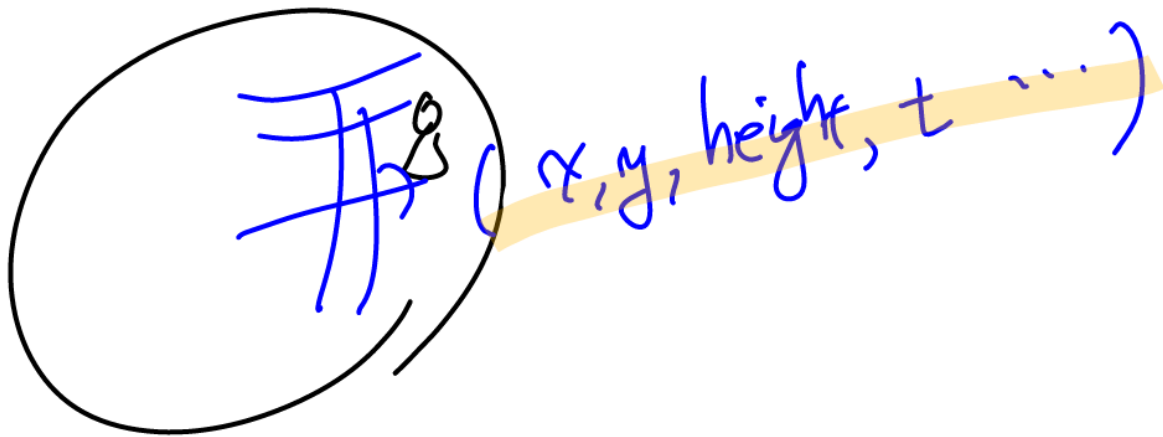
* Global vs Local

(page 37)

static, extern

* Dimension.





* array. 1 dimensional

int a;

[4996]

[5000]

int a0, a1, a2, a3;

[5000]

int a[5];

[5004]

[5008]

[5012]

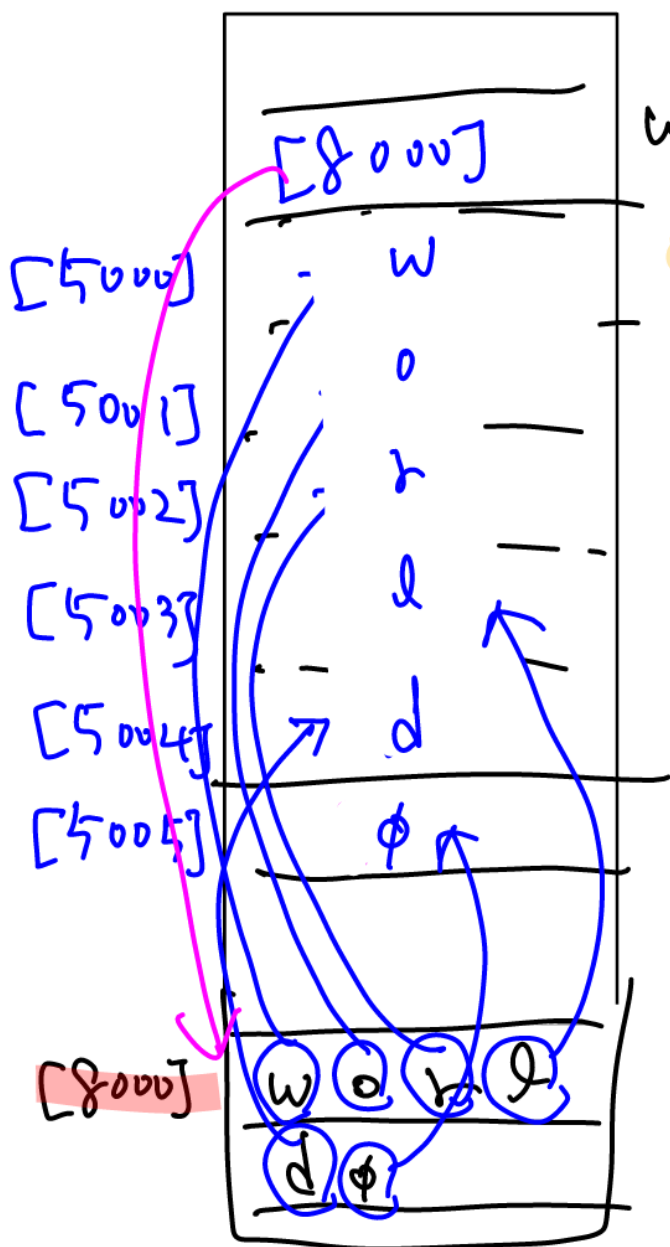
[5016]

		ap
		a
	1	11
	3	[5000]
	5	
	7	
	9	

* (a + n) = a[n]
n[a]

[] operator.

* char array.



wp

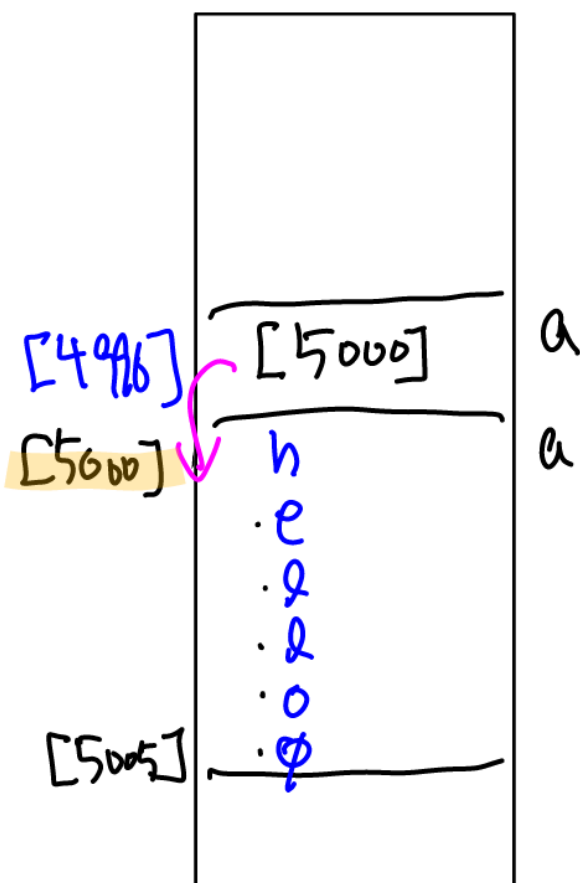
$a \equiv [5000]$

$a = \text{"world"};$

$(a) \leftarrow [8000]$

"world"

$[8000]$



→ 2 dimensional array

(page 6)

int
type

a [5];
name index

* (a + 0)
* (a + 1)

int a [2] [4];

1	3	5	7
1φ	3φ	5φ	7φ

a[0]

≡ [5000]

a[1]

≡ [5016]

[5016]	
[5000]	
1	
3	
5	
7	
1φ	
3φ	
5φ	
7φ	

ap1
apφ

a ≡ [5000]

$$*(*ipp)$$

ip & ip ipp

[5000] [4996] [4996]

[4992]

[4996]

[5000]

? [4996]
 ? → [5000]
 ? → 1

ipp

12

i

high

C_{4992}

 $\alpha[\phi]$

[5000]

[4996]

1 [5004]

φ - - -

6

1

hello ϕ [5]
world ϕ [5]

[5608]

$[50/2]$

ac[i]
|||
[5008]

Handwritten phonetic transcription of the sentence "hello world" using IPA symbols. The transcription is written on a grid with dashed lines. The words are: h i e l l o , φ z z w o r l d φ . Arrows point from the [ʃ] sound in the original text to the corresponding phonetic symbols in the transcription: [ʃ] to [h], [ʃ] to [l], [ʃ] to [w], and [ʃ] to [d].

IPA transcription: [h i e l l o , φ z z w o r l d φ]

ap

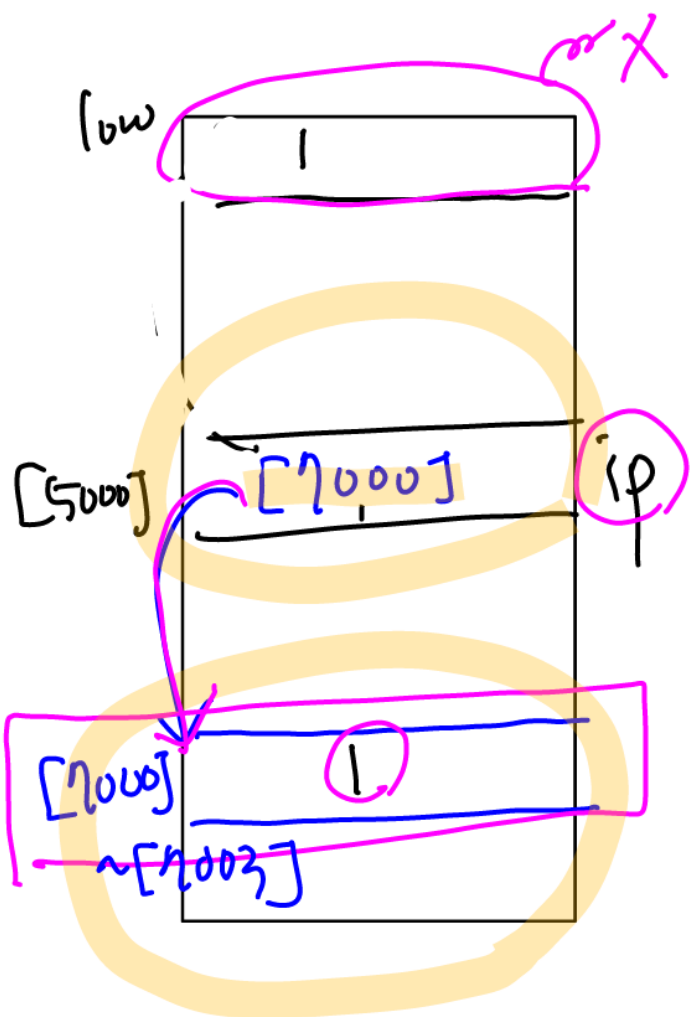
9
111

$a[\emptyset]$

 $a[1]$

$[8000]$

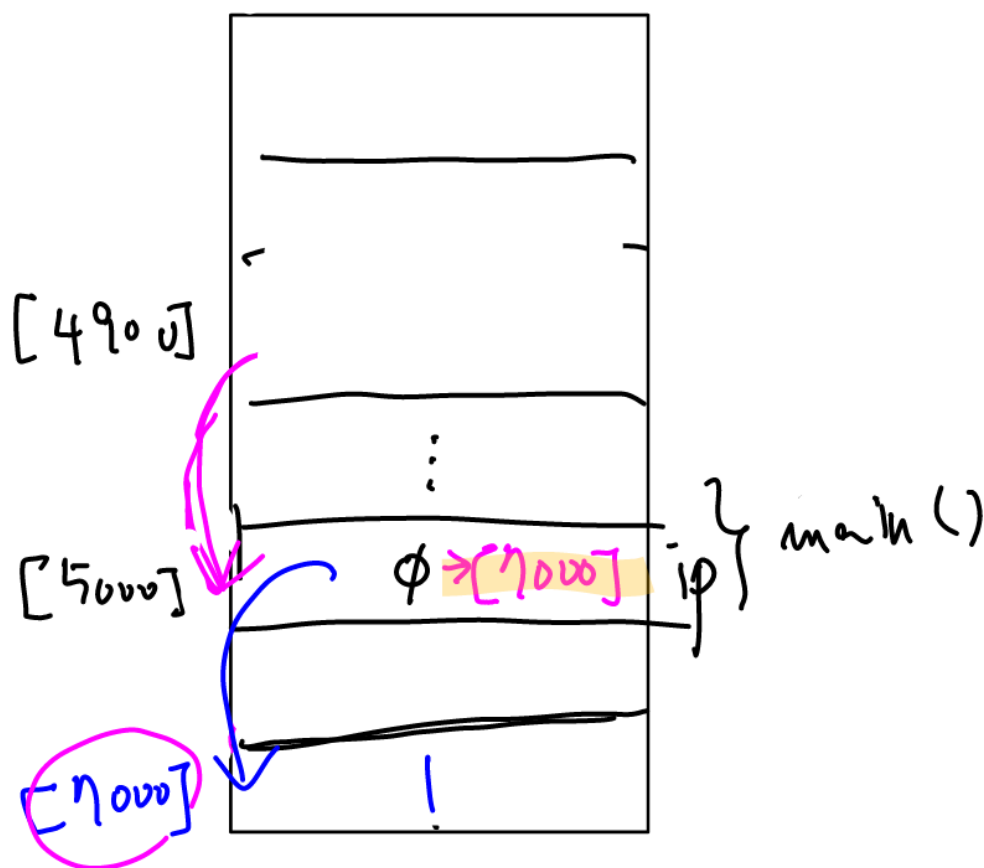
$[8 \times 10]$

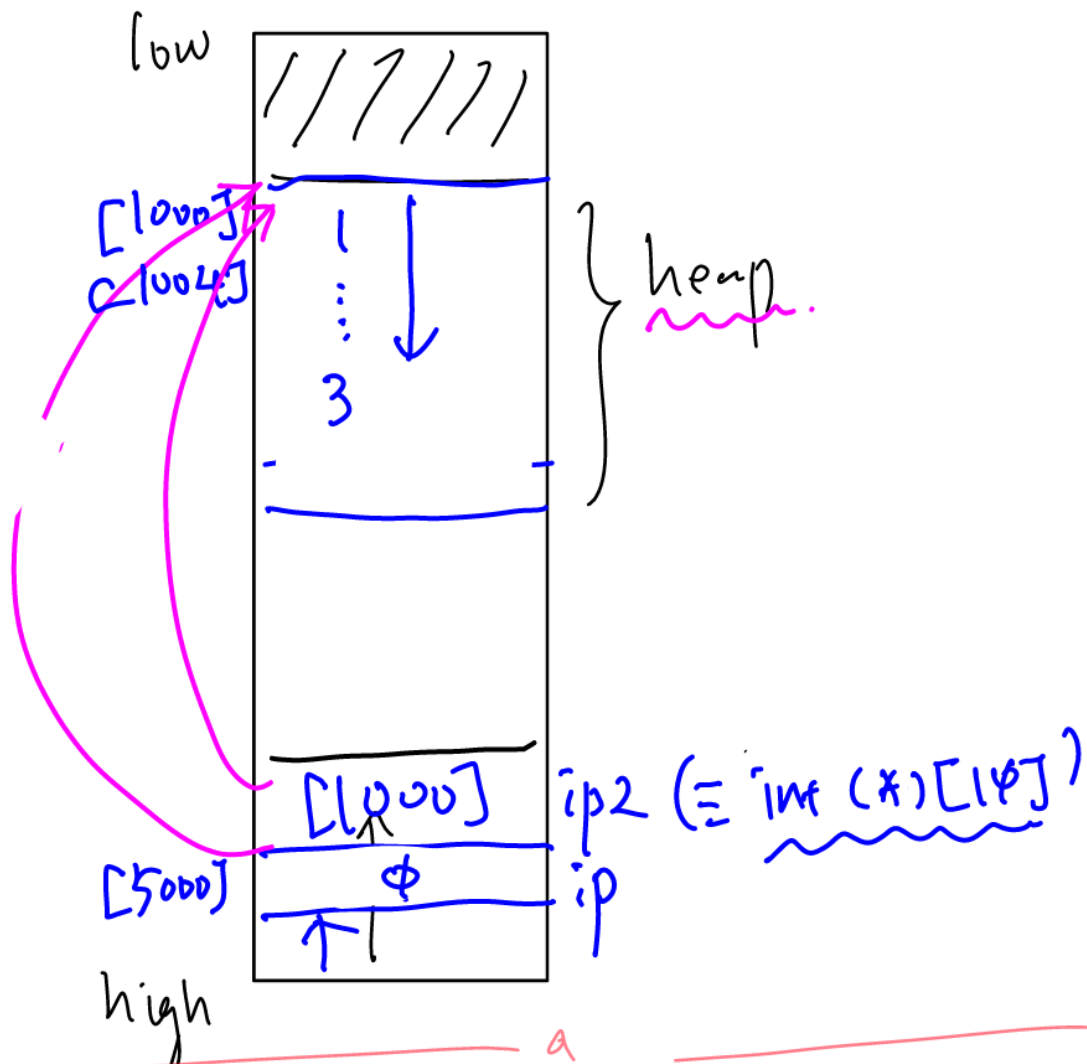


* Dynamic Memory Allocation

malloc()

free()





* type definition

typedef

enum

struct

union

class (C++ only)

unsigned char b;
↓ byte

typedef unsigned char byte;
typedef void (*Fun) (int);

c page 147

enum (enumeration)

enum tagName

{
 constant₁ [= value],
 [constant₂ [= value], ...]

};

* Structure .

struct

int a;

int a [10];

struct a;

struct

[4996]

[4980]

[4984]

[5000]

48

W i o i r i l

d i o i

i i

[5000]

48

H e l l o

o i o i

i i

a

b . age

b . name .

not used

main()

a . age

a . name .

[5000] + 5

{ dot operator.
arrow operator.

People * a:

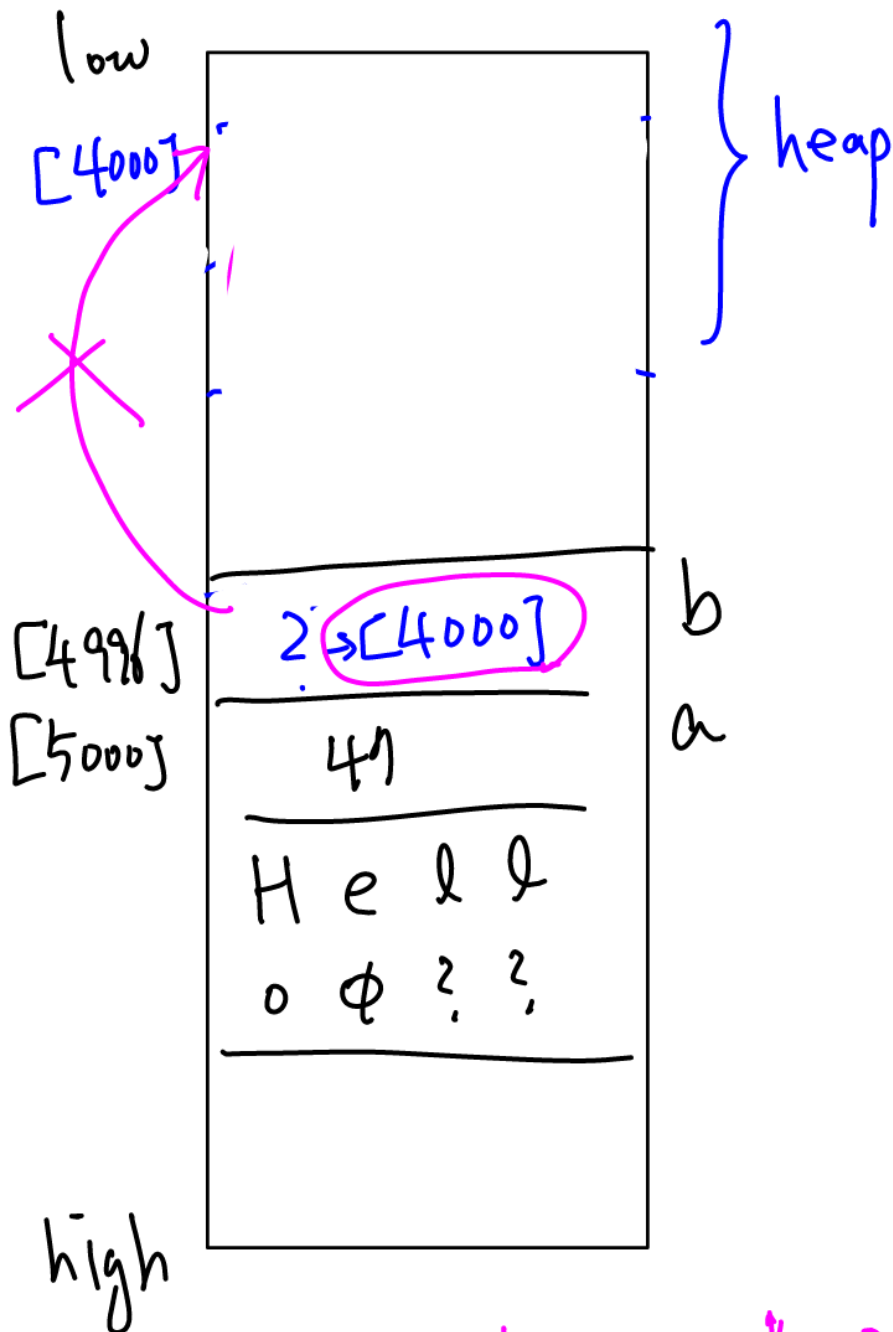
a . age

a . name

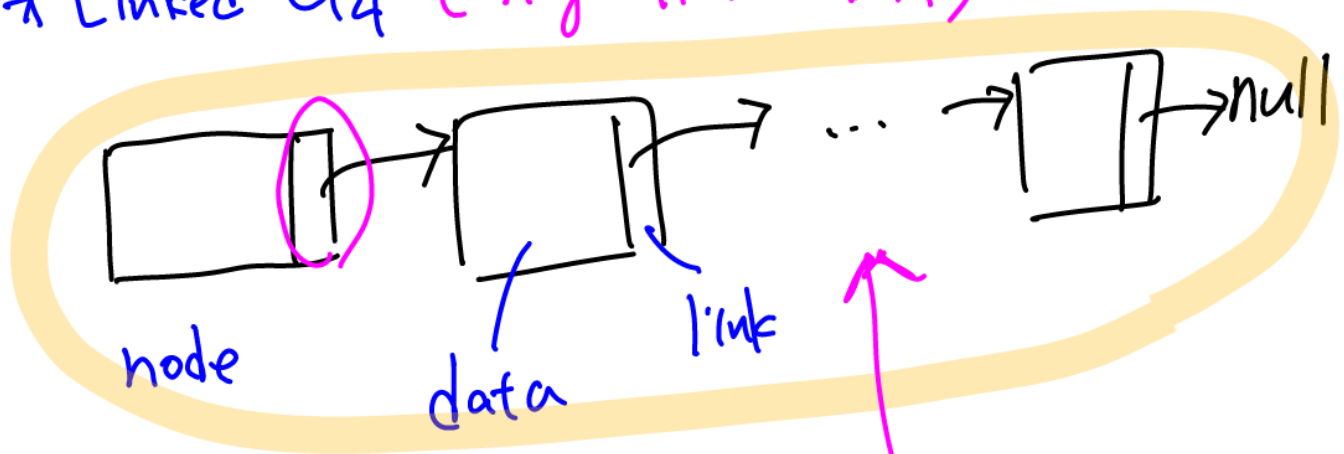
(*a) . age

|||

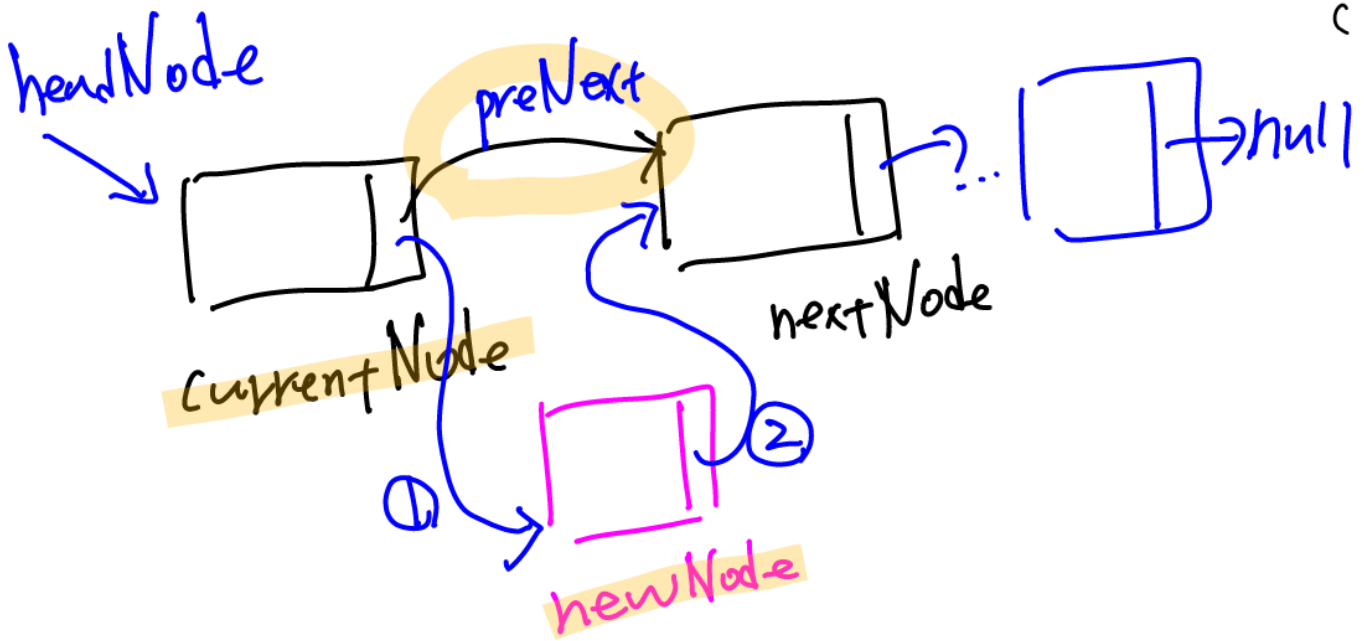
a -> age;



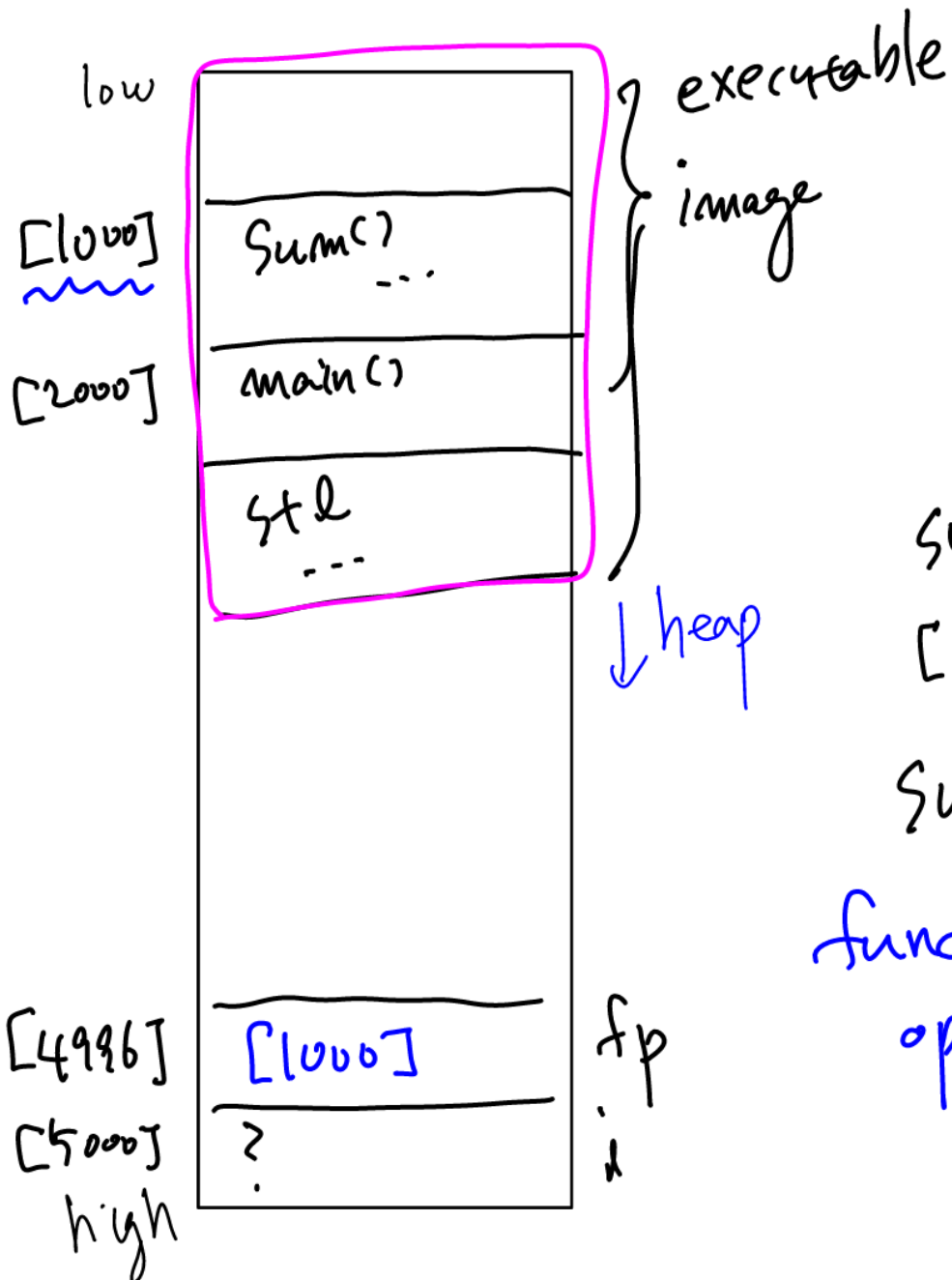
* Linked List (single linked list)



@ Insert



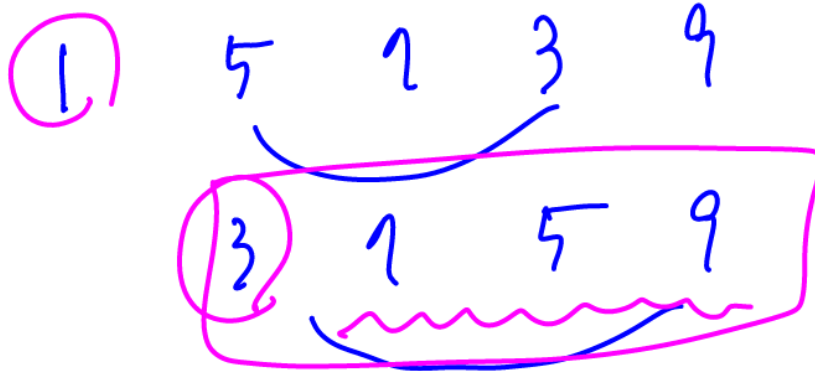
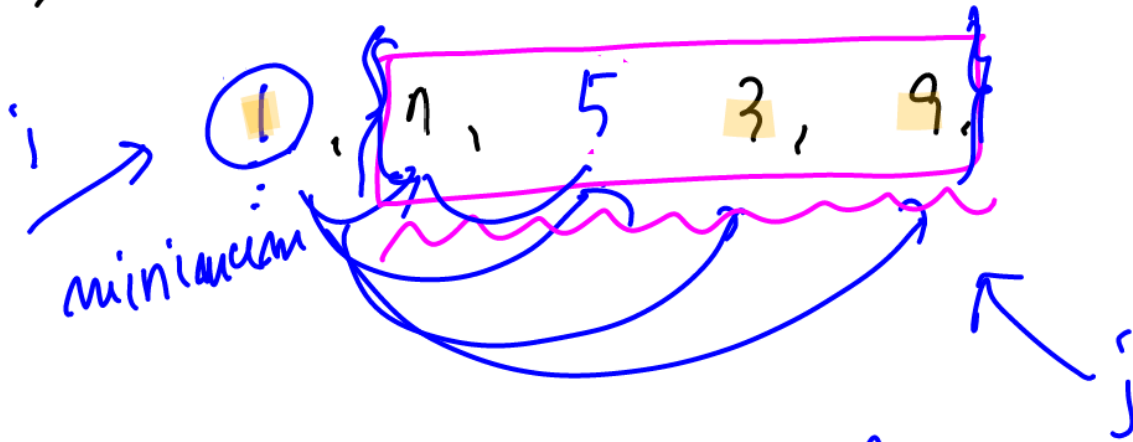
* function pointer



Sum;
[1000];
Sum()
function call
operator.

* Selection Sort

(page 14)



result:

1 3 5 1 9

* preprocessing command

#include

#define

#if

#ifdef ...

...

defined ()

!!

* predefined

preprocessing
command

(= compiler variable)

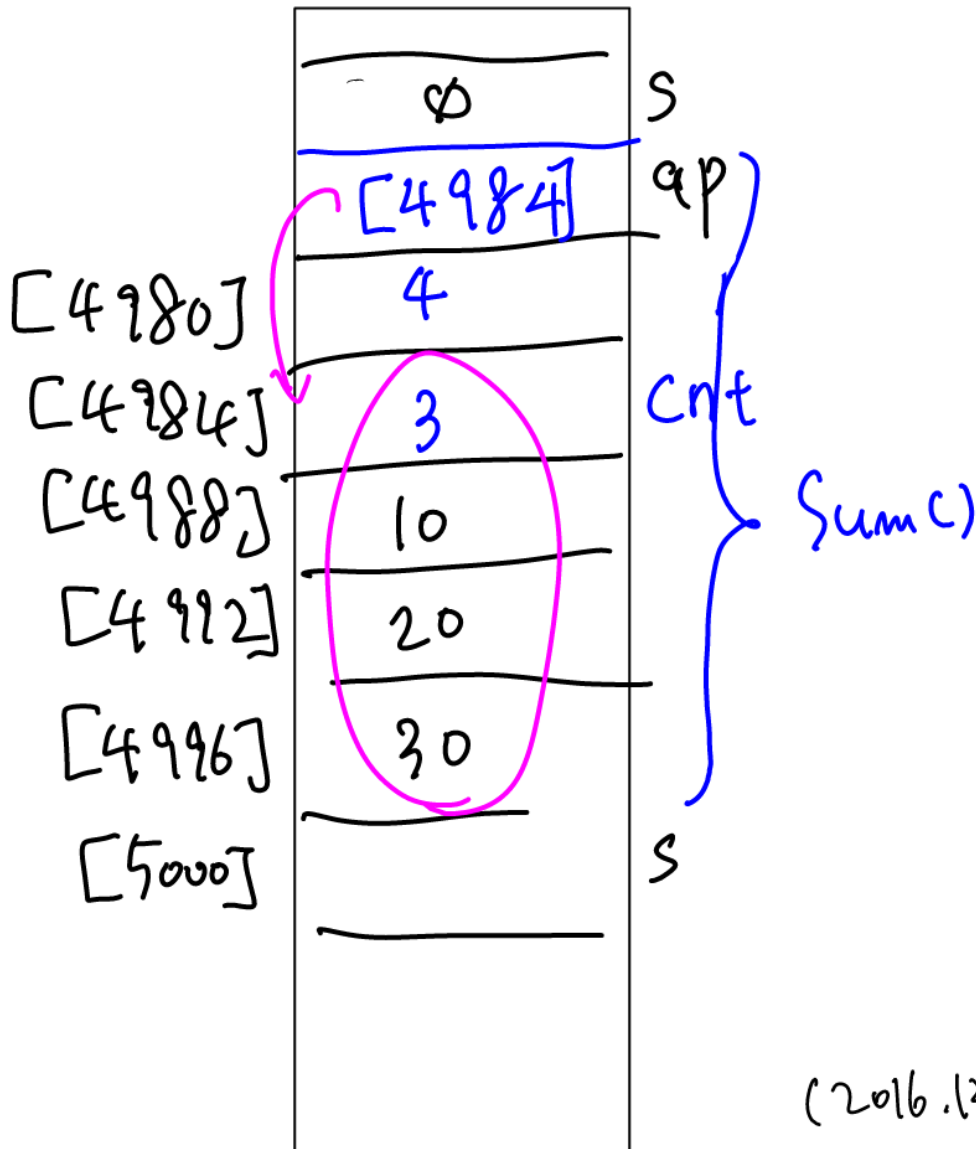
-- LINE --

-- FUNCTION --

##: token concatenation operator. (page 13)

* variable argument

...



(2016.12.22)