

Chap.9 (Subprogram)

9.1

cf) subprogram - function : cf)pascal
- subroutine/procedure :

) procedure:
function subroutine subprogram

pp258-259 subprogram

```
procedure name (formal_para. list)
  declarations
  body
end
```

pp260-261

- o actual parameter
- o formal parameter
- o parameter association

- (positional parameter association)
- (named parameter association)

) procedure TEST(A, B: in REAL; C: in INTEGER;)

```
---> TEST(0.1, 100.0, 50)
      TEST(A=>0.1, B=>100.0, C=>50)
      TEST(B=>100.0, A=>0.1, C=>50)
```

p.263 3가

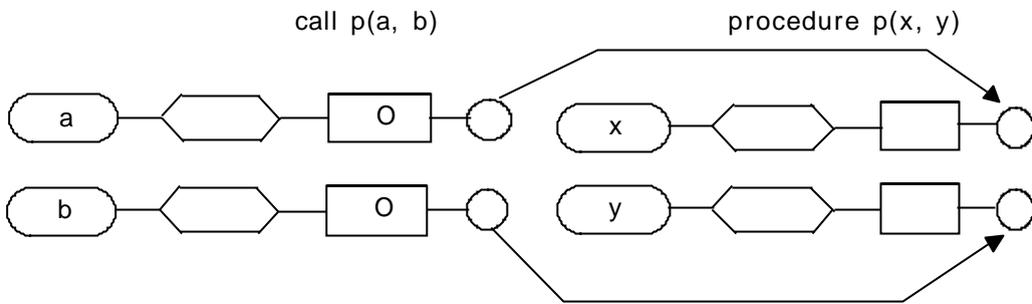
9.2 가

p.263

* formal parameter * actual parameter
: subprogram :

p266

call by value
) C, PASCAL



(i) caller가 actual parameter

(ii) callee r-value

formal parameter

local variable

p267

* actual parameter

p267

~ p.268

* call by value caller

callee가

--> : "call-by-result"

(i) callee가 formal para.

(ii) caller actual para. formal para.

epilog 가

p.269

call by name

: formal para.

가

actual para.

r-value, l-value

eg)

procedure EXCHANGE(X, Y)

integer TEMP

begin

TEMP = X

X = Y

Y = TEMP

end

< -

call EXCHANGE(J, N(J))

integer TEMP

begin

TEMP = J

J = N(J)

N(J) = TEMP

end

p.274

9.3

p276

9.4 (side-effects) (aliasing)

p.276 * side-effects

:

call-by-reference, call-by-name

p276~277 reading

p.277 * alias

:

var.

variable

pp279~282

9.5

p.282 generic function

p.284

9.6 Coroutine

: procedure
 procedure procedure

p285 9.6