Protection domain: has   object & Right

Ex: $< O_1, D_1 >$ or $< O_1, rx >$

$D_1 \boxed{rx}$ & in an access matrix

Access Matrix : Matrix of object and Right

Inside an Access Matrix

· Only the Owner can Destroy in column

· Owner can give rights to any D in column

· * or C can copy the right that it is attach to

Capability list - list the object & right in the
row of the Domain

Access List - list the process & right in the column
of the object

Owner of object (o)

Owner of O_1
can give/remove rights   Destroy O_1

	O_1	O_2
D_1	rw	r
D_2	x	rwx o
D_3	rwx o	rx

→

	O_1	O_2
D_1	w	r
D_2	rx	rwxo
D_3	rwro	rx

or

	O_2
D_1	r
D_2	rwx o
D_3	rx

Copy Right ($*$ or c)

	O_1
D_1	r*
D_2	rwo
D_3	x

→

	O_1
D_1	r*
D_2	rwo
D_3	rx

Capability list (object, rights) of Domain

D_1 : (O_1, rw), (O_2, x)

Access list

O_1
(D_1, rw)
$(D_2, rwxo)$