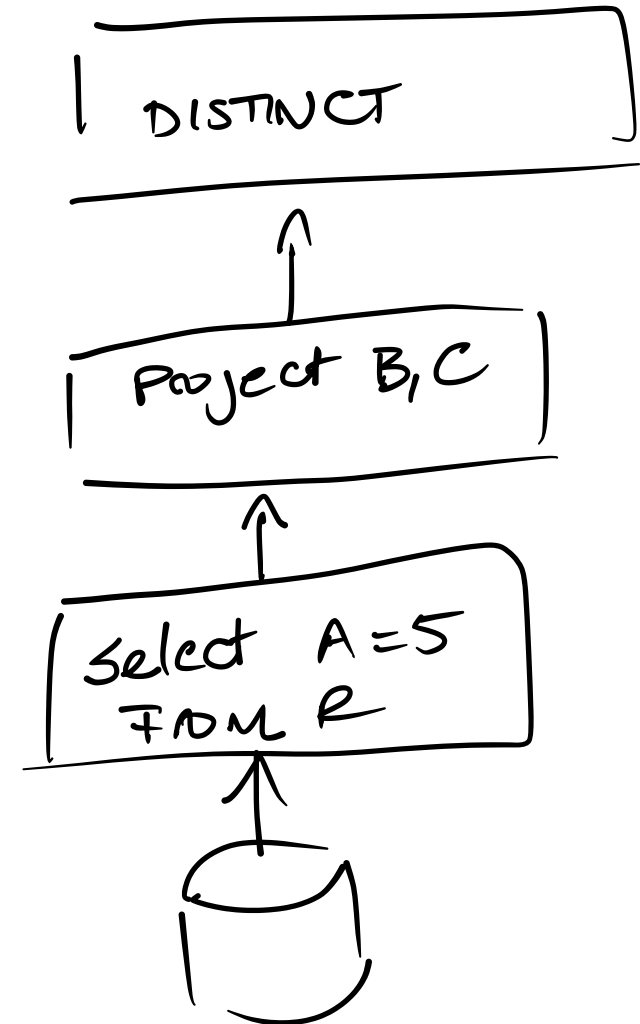
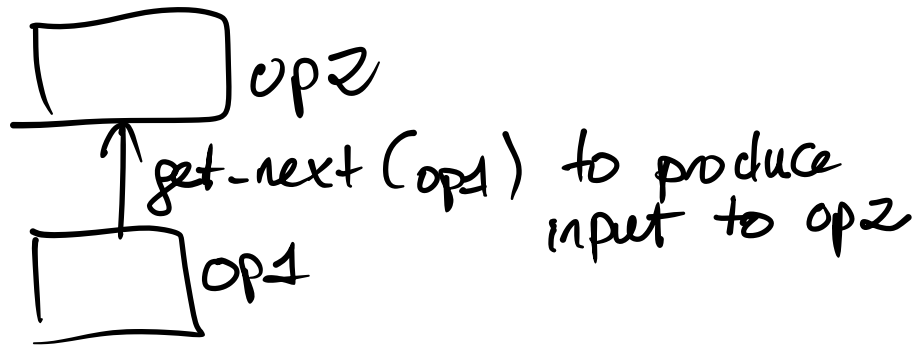
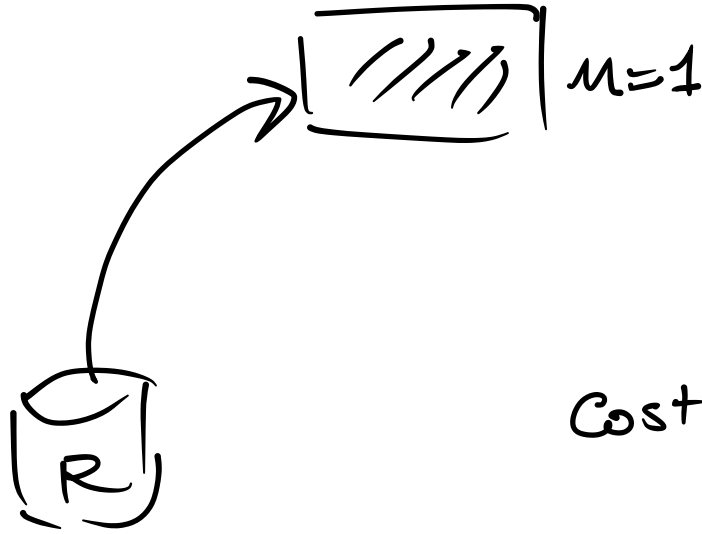


Iterator Interface



Sequential scan
 $\sigma_C(R)$

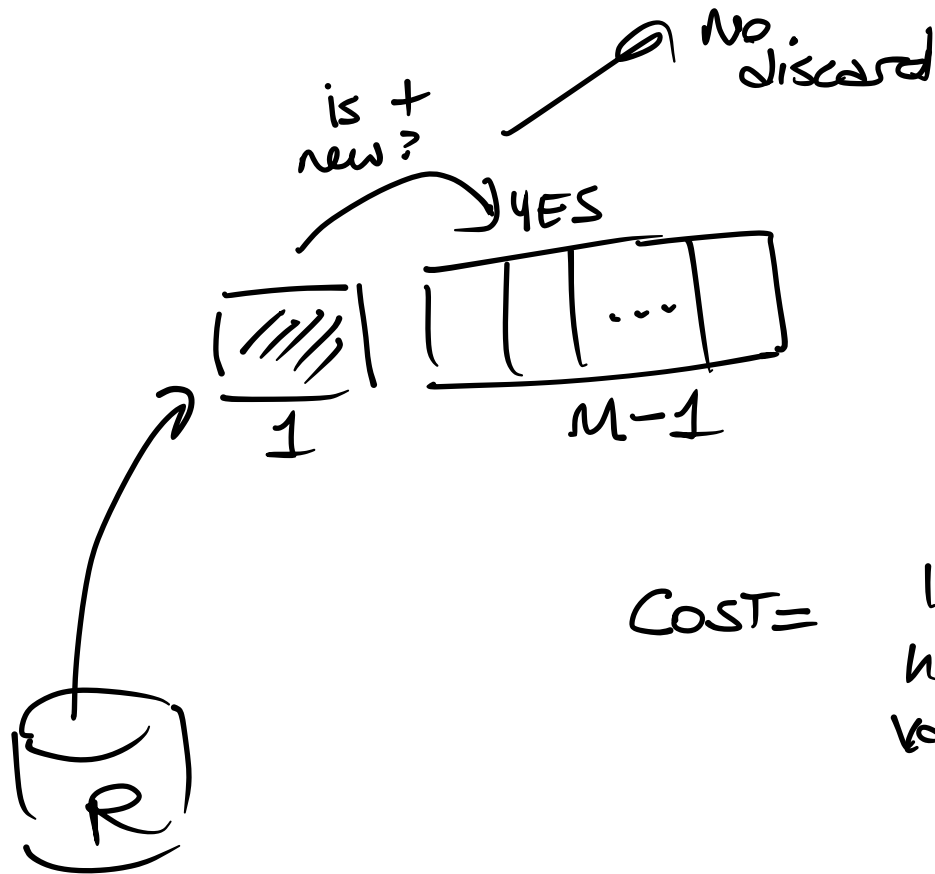
if t.c
is true → put into
output buffer



$$\text{Cost} = \text{PAGES}(R)$$

Duplicate Removal (SR)

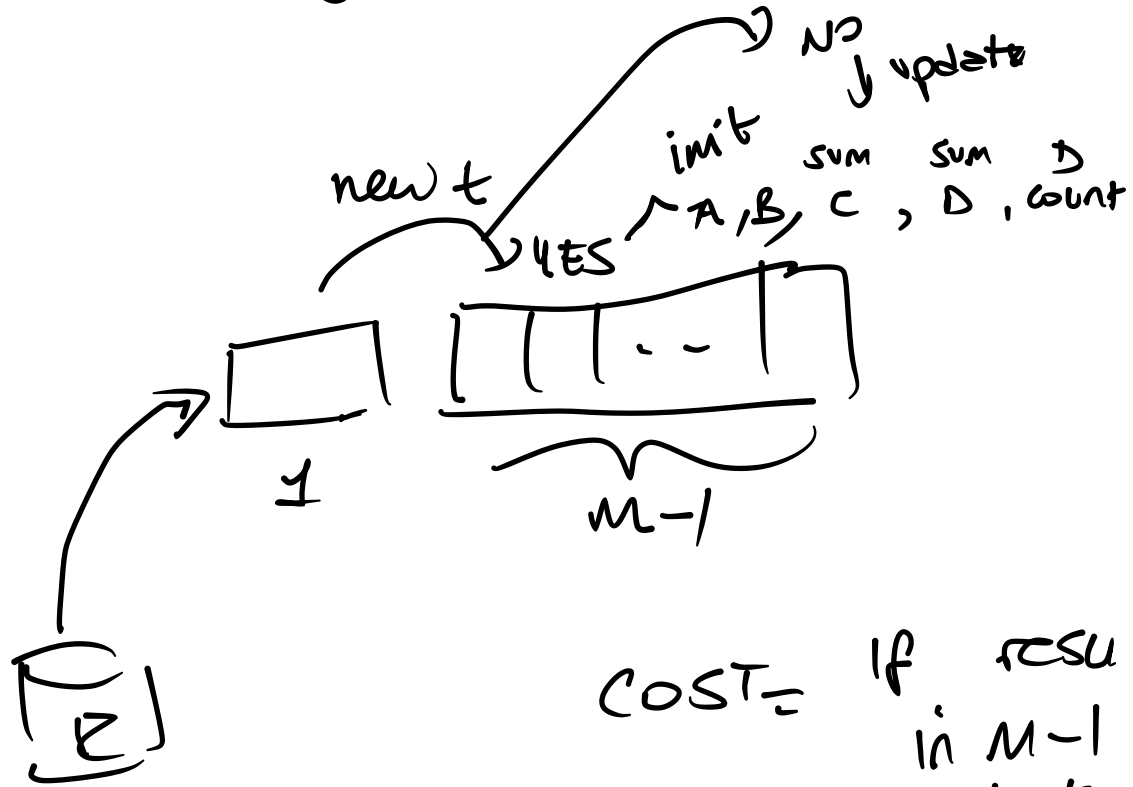
"DISTINCT"



COST = If $M-1$ blocks hold all unique values → PAGES (R)

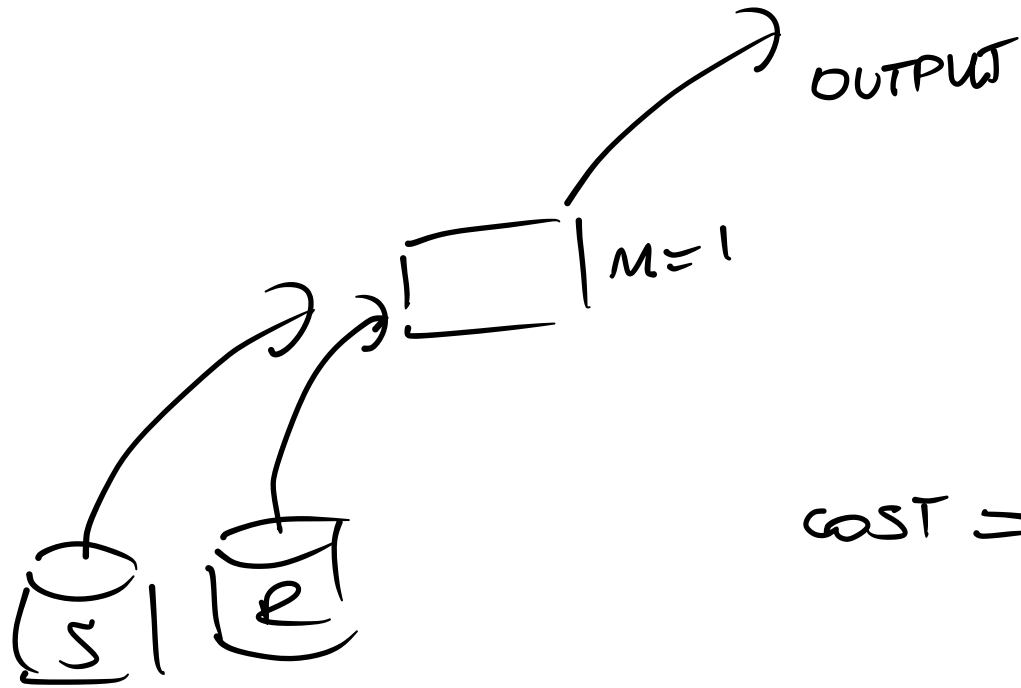
GROUP BY

δ A, B, SUM(C),
avg(D)



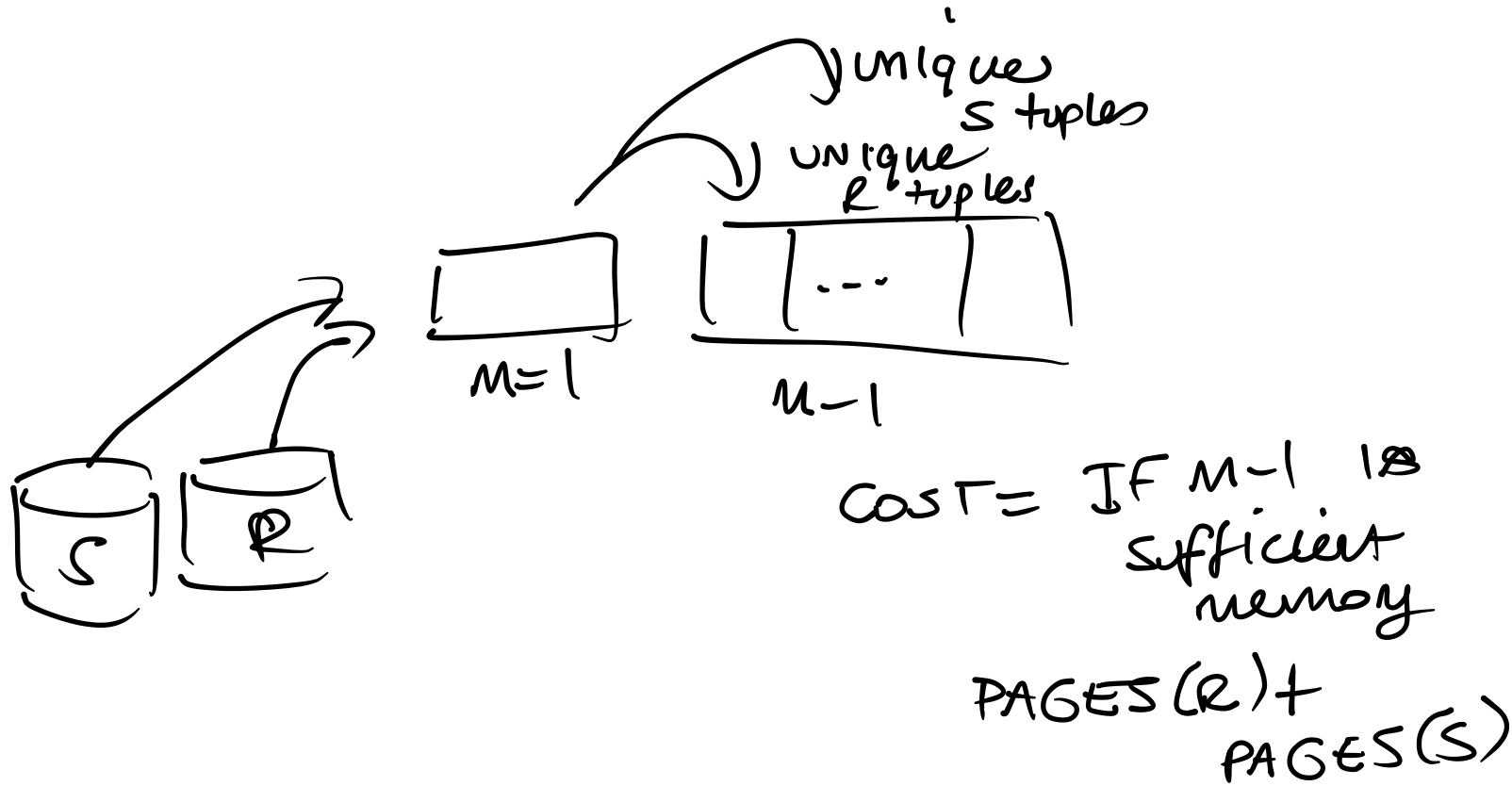
IF results fit
in M-1
blocks
PAGES (R)

R UNION ALL S



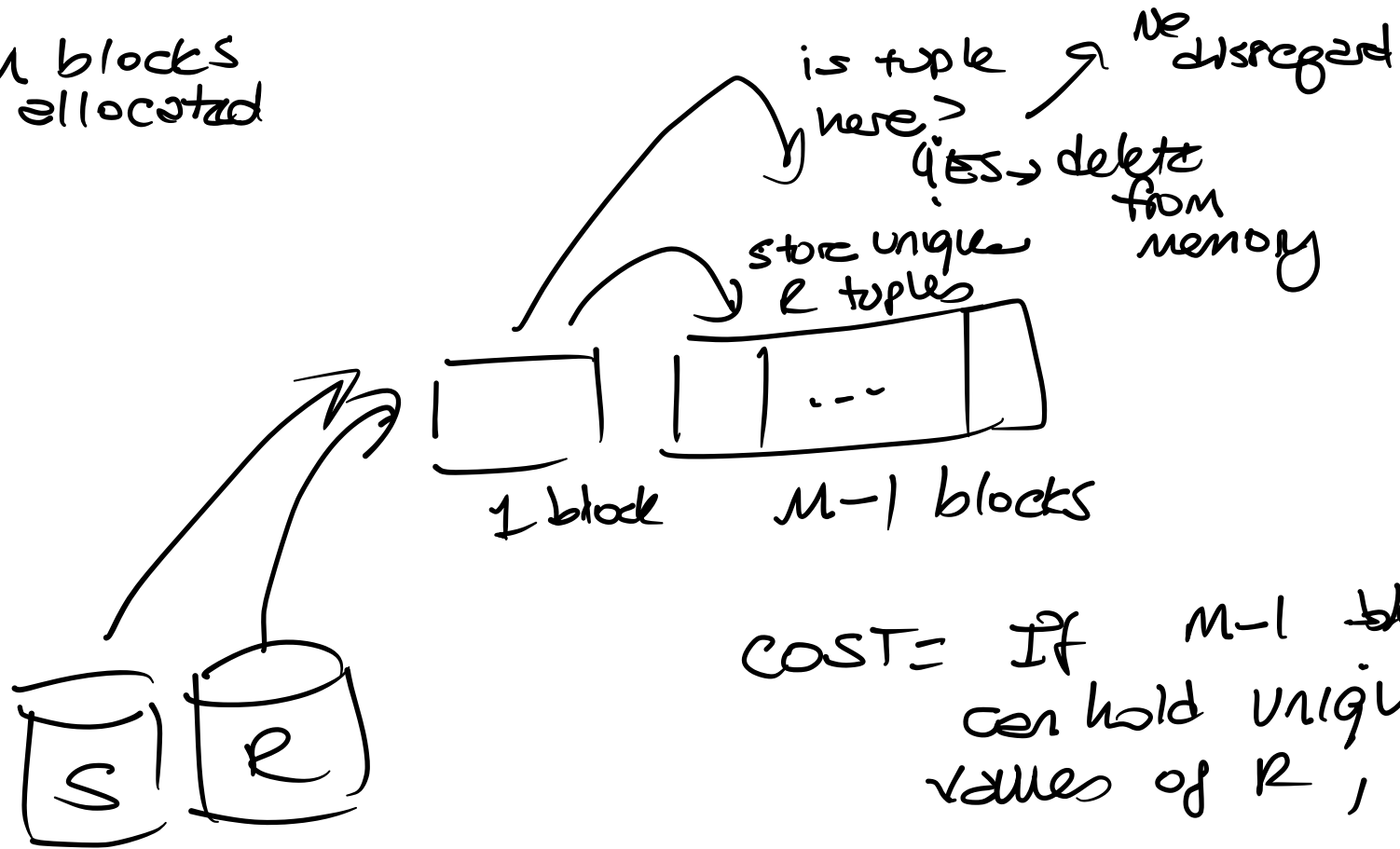
$$\text{COST} = \text{PAGES}(R) + \text{PAGES}(S)$$

R UNION S



R EXCEPT S

M blocks allocated



COST = If $M-1$ block
can hold unique
values of R ,

then

$$\text{PAGES}(R) + \text{PAGES}(S)$$

Index Scan

SELECT A, B
FROM R
WHERE C = 10;

Index I1 on R(C)

