

[1] Threshold Algorithm

Domains of A and B contain nonnegative values; goal function is A+B, to be maximized.

Attributes A and B are sorted and indexed.

OID	A
4	100
1	90
6	80
5	70
2	40
3	30

OID	B
6	100
5	90
1	70
3	50
4	30
2	20

Variables (after inspection of top elements):

Max-A = 100

Max-B = 100

Threshold = 200

Buffer:

[6:180]

[4:130]

Top-k after this round:

[2] No Random Access Algorithm

Domains of A and B contain nonnegative values; goal function is $A+B$, to be maximized.

Attributes A and B are sorted but not indexed.

OID	A
4	90
1	90
6	40
5	30
2	20
3	10

OID	B
6	100
5	40
1	40
4	30
3	20
2	10

Variables (after inspection of top elements):

Max-A = 90

Max-B = 100

Threshold = 190

Buffer:

[6:100-190]

[4:90-190]

Top-k after this round: