# Question 1

## What is the cost of index search?

Number of estimated tuple

Tuples on each leaf

Total cost

## What is the additional cost of the block-nested join on top of the index search?

Page num

Cost

## What is the additional cost of the sort on top of the cost of index search and join?

Calculate tuple after join

Page needed Total sorting cost

## What is the total cost of this query plan

Total cost

# Question 2

1. (R join S) join T
2. (R join T) join S

# Question 3

S: r1(x) r2(z) r1(y) w2(w) w2(z) r3(z) w3(x) r1(w) w1(y) w3(z)

r2(z) w2(w) w2(z) r1(x) r1(y) r1(w) w1(y) r3(z) w3(x) w3(z)

## List all conflicts

r1(x) w3cdx(x)

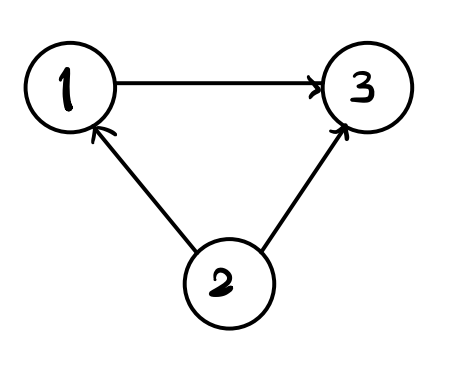
r2(z) w3(z)

w2(z) w3(z)

w2(z) r3(z)

w2(w) r1(w)

## Check if schedulable



There is no potential conflict

## 2PC

Yes it is possible, there is one listed potential schedule

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