Fetch Types (loading)

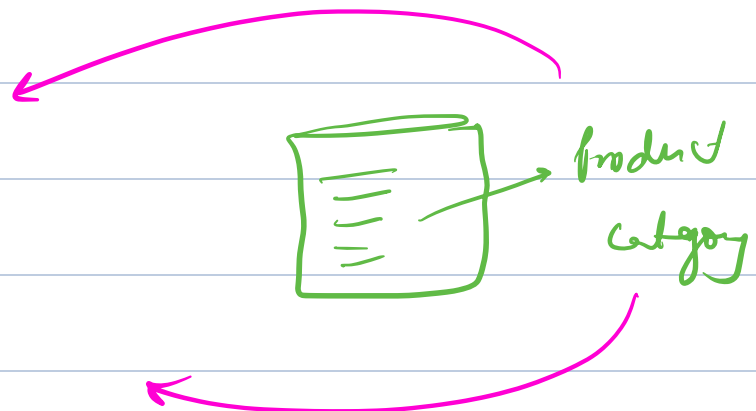## Fetch Modes

```
class Category {
                List < Product > products;
        }
```

Category c = CategoryRepo. find By Id (1L) . get();
sout (c.getName ());

SB (RAM)

Product
Category
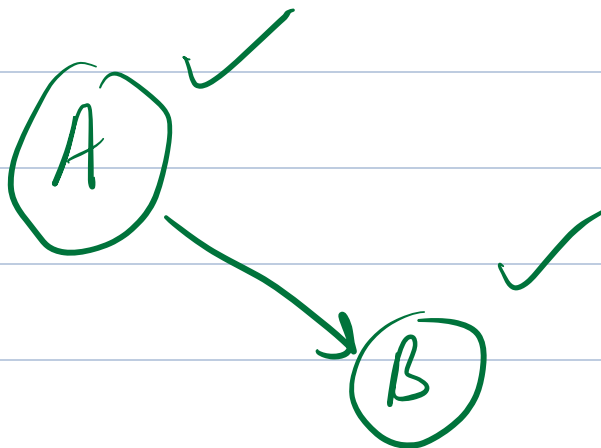
Ans depends on Fetch Type

Lazy

Eager

→ JPA is too lazy to load child entities from DB to Application RAM if user has <u>not asked for it</u>
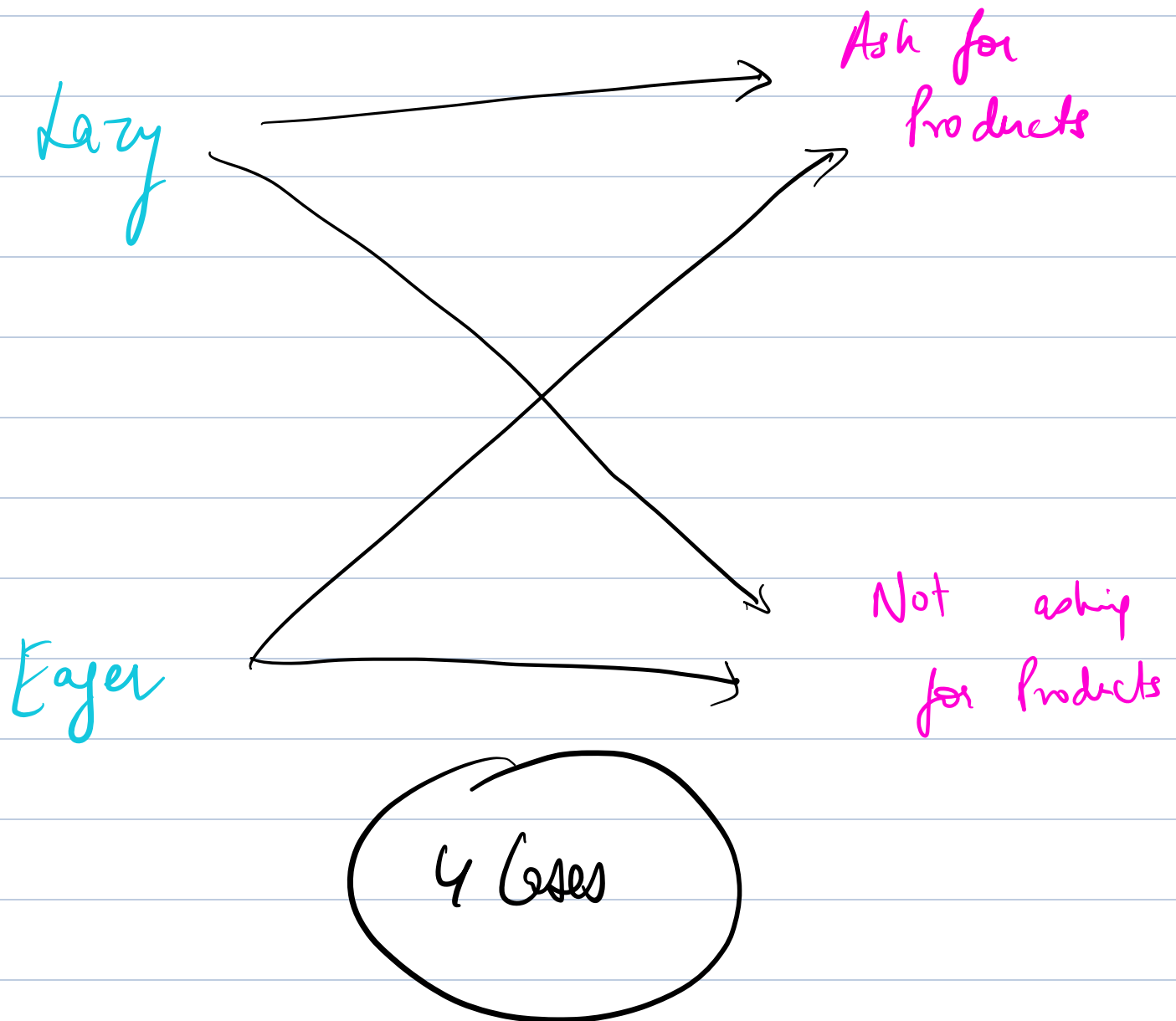
(Eager) → JPA is too much eager to even give you entities which you have not even <u>asked for</u>.

(A) ✓

(A) → (B) ✓

Only A will be given & not B if not asked for B

in case of Lazy Loading

Cases for Demo

Lazy   Ask for
                   Products

Eager   Not asking
                   for Products

4 Cases

Fetch Type helped us in getting ==when== data will be fetched.

Fetch Mode will help you in deciding how to get the data

  ↳ whether to Run ==Select== Query
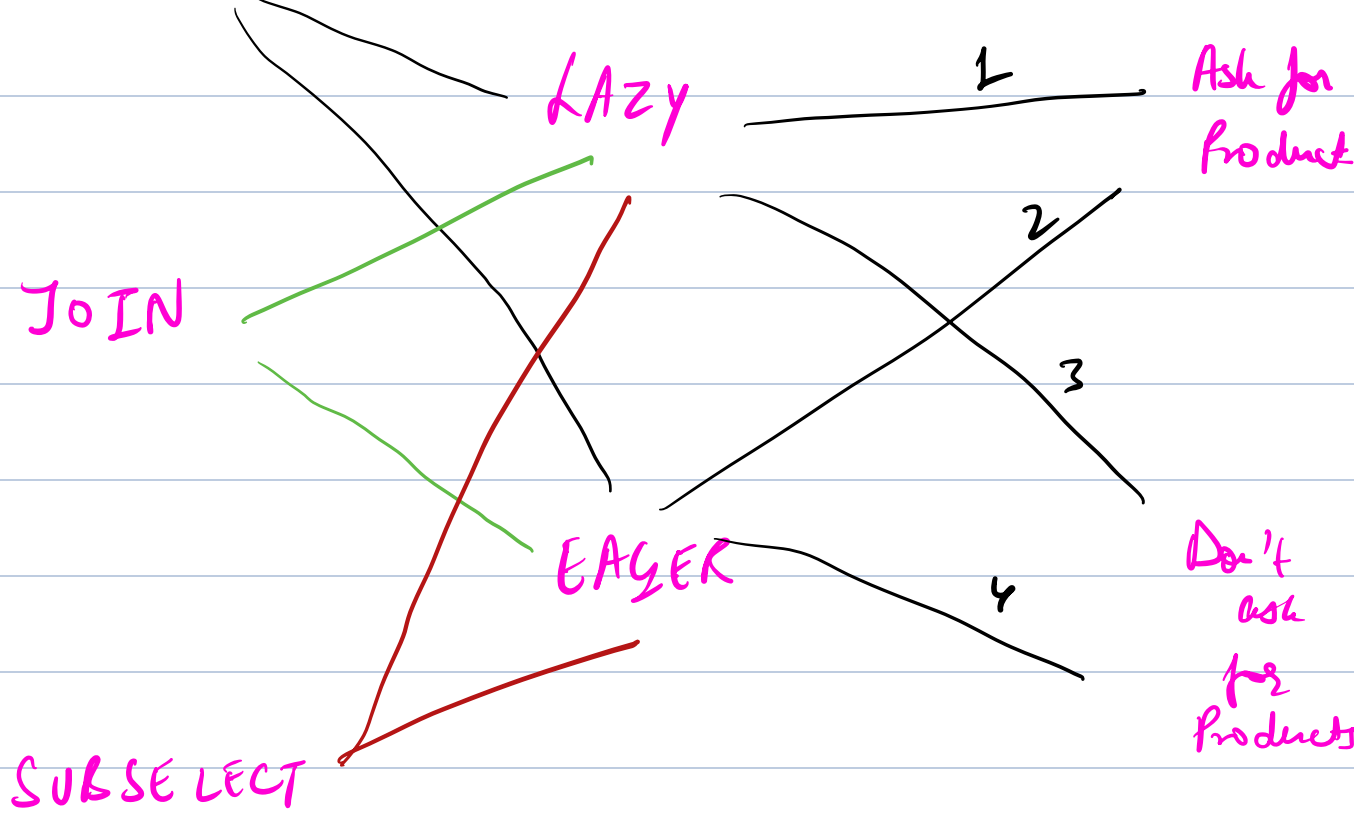
   ↳ whether to Run ==Subquery== [Subselect]

    ↳ whether to Run ==join== Query

Fetch Mode   Fetch Type   Case

SELECT

LAZY

JOIN

EAGER

SUBSELECT

1   Ask for Product

2

3

4   Don't ask for Products

$4 * 3 = 12$ Cases possible