

Pantry

id	ingredient	quantity
1	carrot	4
2	potato	6
3	beef	1

function A → All Recipes

parses json, creates table

id	recipe
1	R1
2	R2
3	R3
4	R4
5	R5

function B → Ingredients : Recipes (IR)

makes table of ingredients as "keys" and recipe ids as "values"

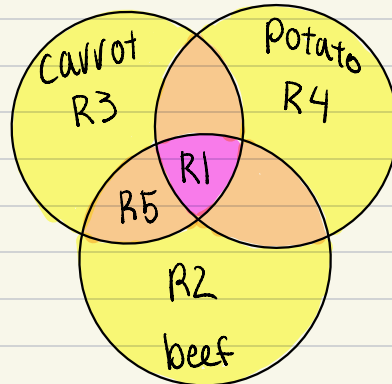
id	ingredients	recipe IDs
1	carrot	R1, R3, R5
2	potato	R1, R4
3	beef	R1, R2, R5
4	onion	R1, R5

Function P (pantry, IR) → Function G (Function P's return)

↳ gets all recipes that match the pantry from the IR table

↳ sorts all recipes by the following:
 → intersection of all ingredients, most to least
 ↳ if in same intersection, shortest to longest list of ingredients
 ↳ if same, alphabetical

PHP to website



ORDER

R1

R5

R2

R3

R4

} depends on ingredient list