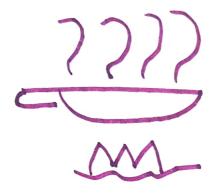
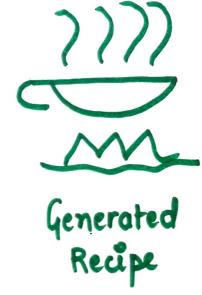
## GOAL



Existing? Recipe





FREQ: RARE ING.



FRED: RARE ING.

1) For each ingredient, find count of recipes containing

INGREDIENT	COUNT	
salt	45206	
onion	34544	
yellow pea	99	
dhaniya powder	6	

2) Finding the average recipe count for an ingredient.

(3) Making an assumption that,

Ingredient with recipe count > 57 → Frequent ingredient

Ingredient with recipe count ≤ 57 → Roully occurring

ingredients

salt 
$$\rightarrow$$
 45206>57  $\rightarrow$  Freq.

onion  $\rightarrow$  34544>57  $\rightarrow$  Freq.

yellow pea  $\rightarrow$  99  $\rightarrow$ 57  $\rightarrow$  Freq.

dhaniya powder  $\rightarrow$  6  $\leftarrow$ 57  $\rightarrow$  Rare

4) for each recipe, find the ingredients contained in it and the recipe size.

RECIPE NO.	INGREDIENTS	RECIPE
18206	[ water]	1
118511	[ brown sugar, strawberry ]	2
62146	[ white onion, sugar, rice vinegar]	3
63427	[flour, egg, water]	3

5) For each ruipe, find the ratio of frequently to rearrely occurring inguidients.

RECIPE NO.	JNGREDIENTS	RECIPE	FRED	RARE
18206	Cwater]	1	1	0
112511	[brown sugar, strawberry]	2	2	0
62146	[white onion, sugar, rice vinequ]	3	3	D
63427	[flour, egg, water]	3	3	0

6) for each runge size, find the most freq. occurring

HUS. HINE	VIII.	UIKE
RECIPE SIZE	FRED	RARE
)	1	0
2	2	0
3	3	0
Ч	Y	D
5	5	D
6	6	0
7	7	0
8	8	0
9	9	0

TS RATIO.	V	•
10	ΙŲ	9
- 11	11	0
12	12	0
13	13	0
14	14	9
15	15	0
16	16	O
17	17	0
18	18	0
19	19	9
20	20	0

2	S and the second desired and the second desired and second desired desired and second desired desired and second desired	and the second of the second
22	A DISTRICT TO SERVICE AND A SE	D
23	23	The Revenue Allendary
24	23	0
25	24	gette er stegt i sest at att den menstern mensterne som en
26	25	
27	27	0
28	27	1
29	29	0
30	25	5
31	29	2
32	26	6
33	32	1
34	28	6
33 34 35	32	3
36	32	4
37	36	1
3-8	36	2

7) Generate a random no. from 1 to 8.

Say, no. generated = 6

Now, for recipe size = 6, look up the table for its FREQ: RARE SNGREDIENTS RATIO. Then select ingradients into the new sucipe in the same ratio.

2	· · · · · · · · · · · · · · · · · · ·	
22	2 )	D.
23		Parama da a parama da a parama da canada da ca
24	23	0
25	2) 23 23 24 25	
	24	
26	25	
24	27	0
27	27	1
29	29	0
30	25	5 2
31	29	2
32	26	6
33	32	1
34	28	6
32 33 34 35	32	3
36	32	4
37	36	1
5 T	***************************************	
38	36	2

7) Generate a random no. from 1 to 8.

Say, no. generated = 6

Now, for recipe size = 6, look up the table for its FREQ: RARE SNGREDIENTS RATIO.

Then select ingradients into the new recipe in the same ratio.