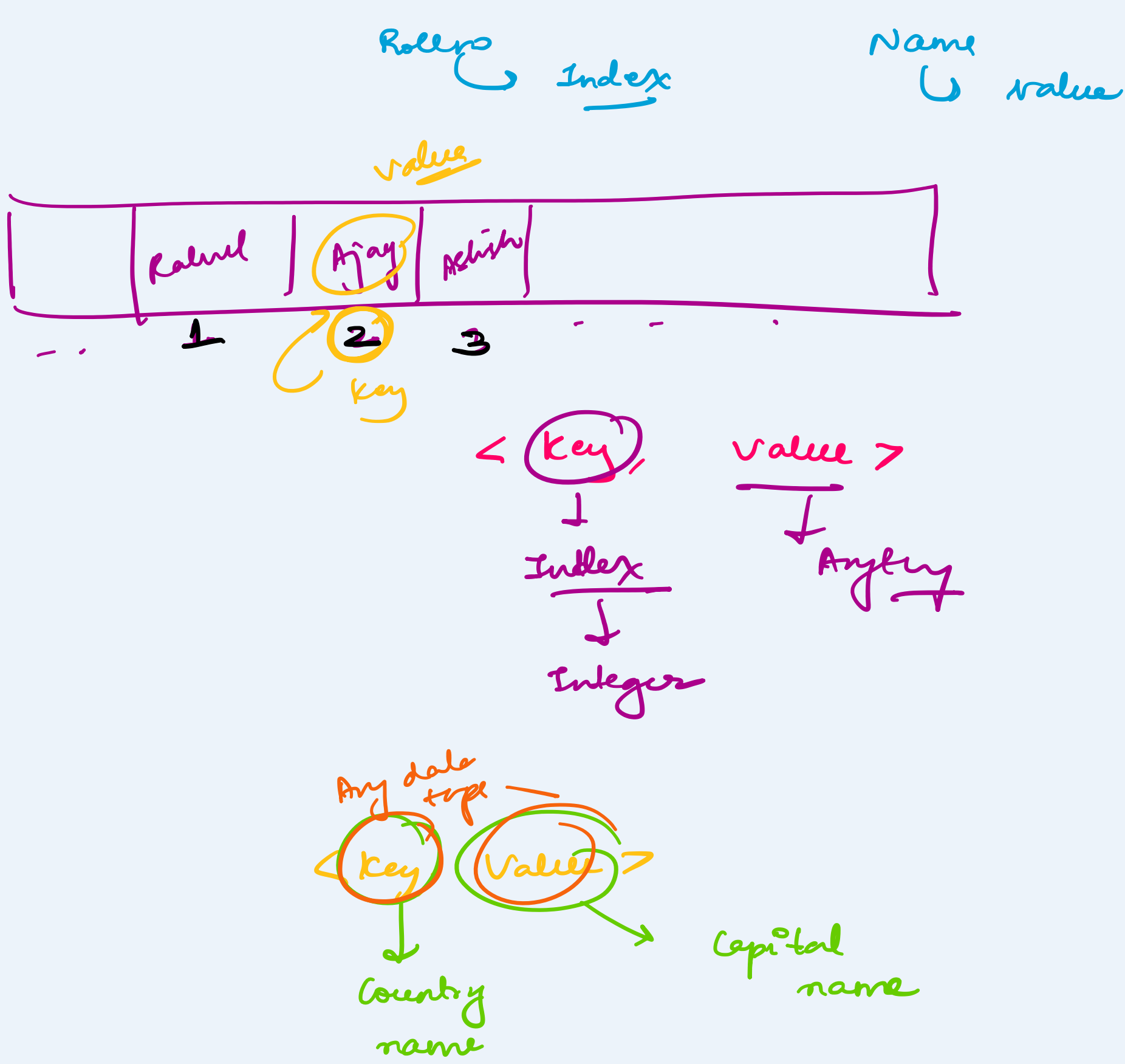


## Hashmaps

### Problem statement

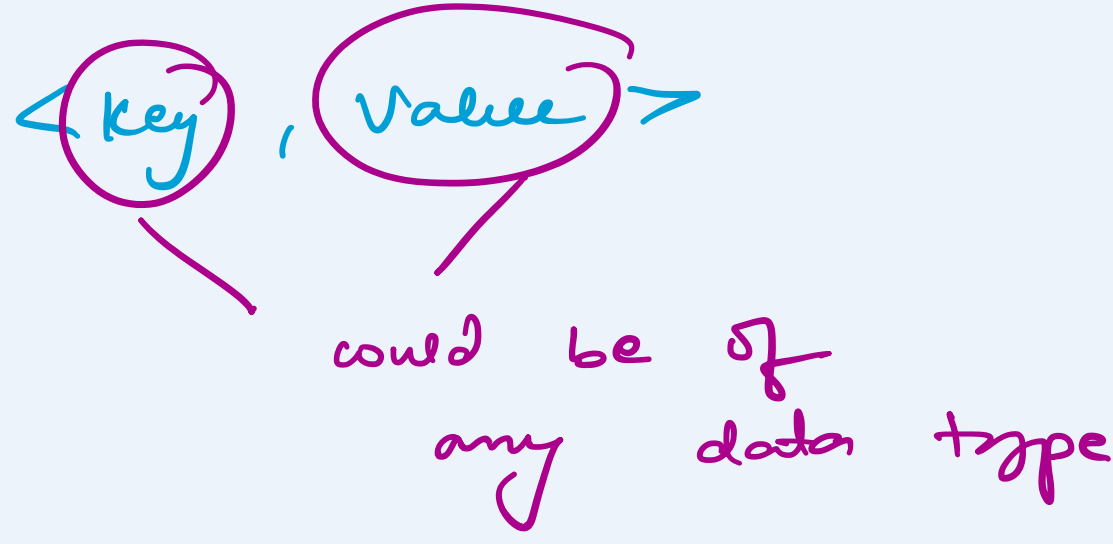


### Arrays / ArrayList



For each country, I want to store the capital.

## Hashmaps



- 1:1 mapping of key, value
- key will always be unique.

|          |           |
|----------|-----------|
| India    | Delhi     |
| UK       | London    |
| Scotland | Edinburgh |
| Maryana  | Chadgar   |
| Punjab   | Chadgar   |

### Syntax:

HashMap < string, Integer > map =  
 new HashMap <> ();

Q. Given a string, find the maximum frequency characters.

Eg: "aabc dde bbbf"  
 ans → b

Eg: "abcddm xxbx"  
 ans → b | x | d

- Store all characters and their frequency in the string.

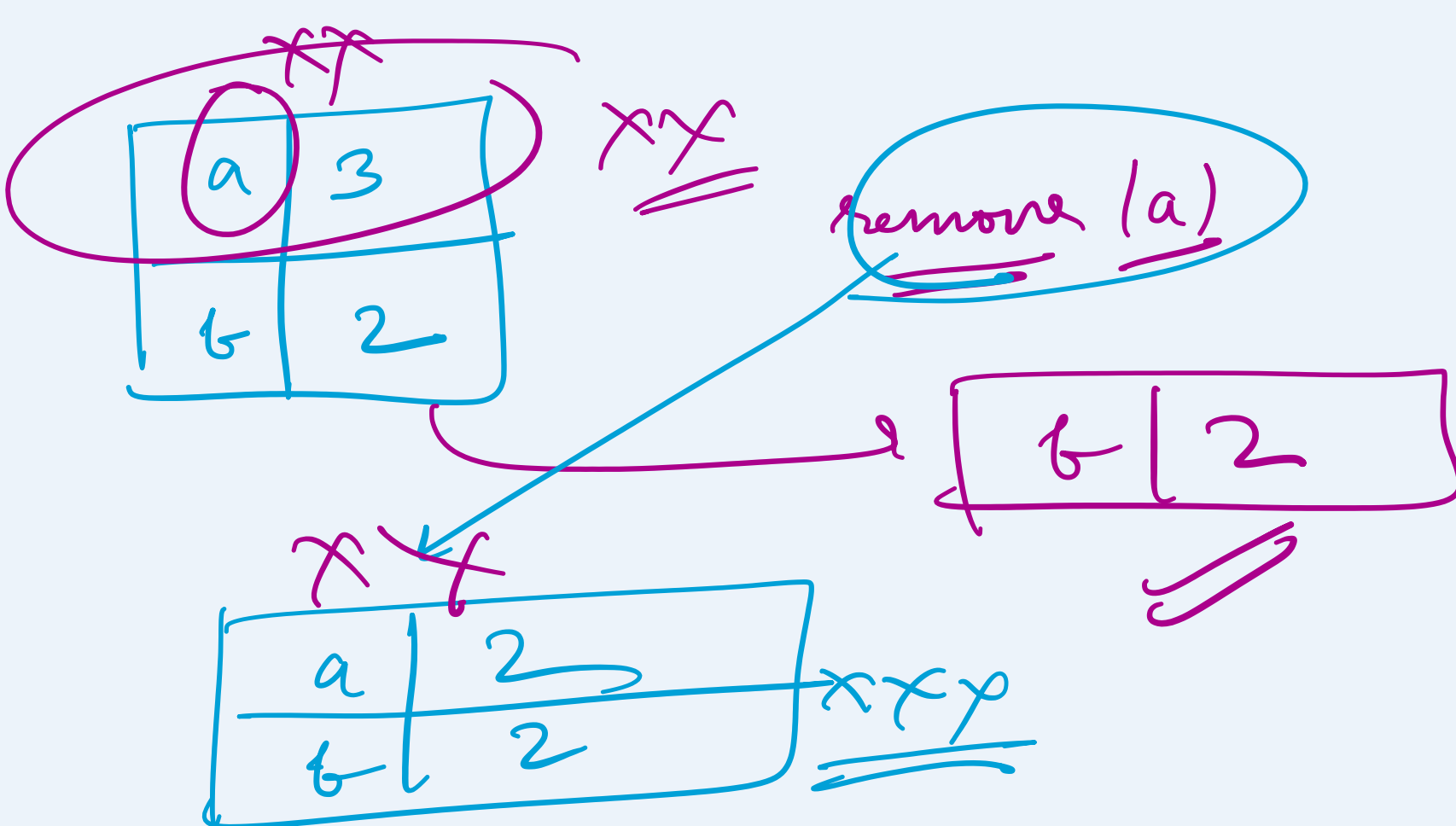
< char, Integer >

|   |   |
|---|---|
| a | 2 |
| b | 4 |
| c | 1 |
| d | 2 |
| e | 1 |
| f | 1 |

string → aabc dde bbbf

char = b  
 val = 4

- Iterate over the frequency & find the char with max frequency.



Q. Given an array of integers and an integer k.

Return the total no. of subarrays whose sum equals to k.

