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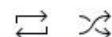
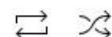
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Majority Element

Given an integer array of size n , find all elements that appear more than $\lfloor n/3 \rfloor$ times.

nums[] = (1, 3, 2, 5, 1, 3, 1, 5, 1); $n = 9$
#1

frequency > 4 } ①
2 > 1 }
5 > 2 }

$\frac{9}{3} = 3$ ②

nums[] = (1, 2);
#1, 2

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Majority Element

Given an integer array of size n , find all elements that appear more than $\lfloor n/3 \rfloor$ times.

nums[] = (1, 3, 2, 5, 1, 3, 1, 5, 1); $n=9$ ①
② ③

nums[] = (1, 2);
④ ⑤

frequency > 4 } ⑥

2 > 1 } ⑦

5 > 2 } ⑧

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Majority Element

Given an integer array of size n , find all elements that appear more than $\lfloor n/3 \rfloor$ times.

nums[] = (1, 3, 2, 5, 1, 3, 1, 5, 1); $n = 9$

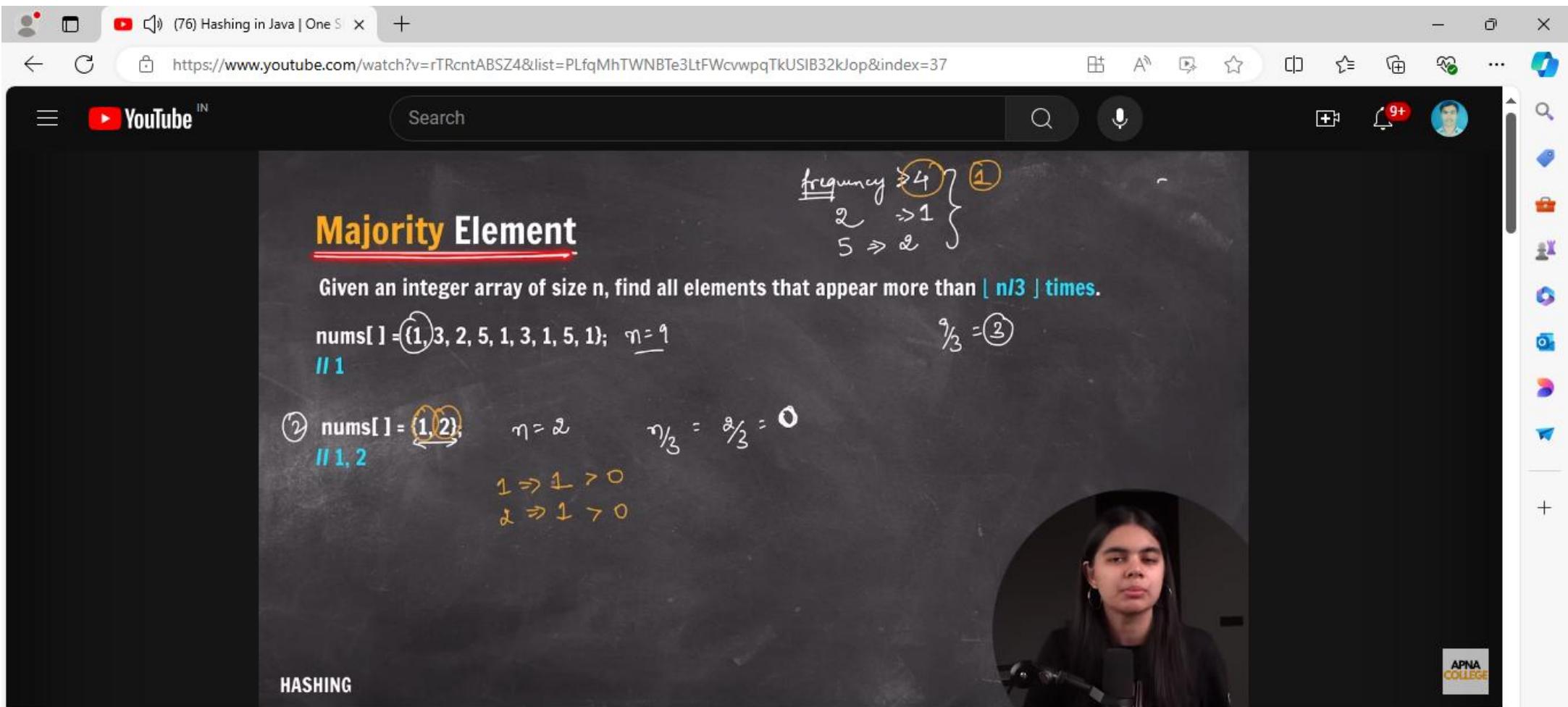
// 1

(2) nums[] = (1, 2); $n = 2$ $\lfloor n/3 \rfloor = \lfloor 2/3 \rfloor = 0$

// 1, 2

$1 \Rightarrow 1 > 0$
 $2 \Rightarrow 1 > 0$

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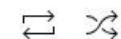
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Majority Element

Given an integer array of size n, find all elements that appear more than $\lfloor n/3 \rfloor$ times.

nums[] = {1, 3, 2, 5, 1, 3, 1, 5, 1};
// 1

(2) nums[] = {1, 2};
// 1, 2

appearance
occurrence
freq

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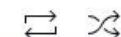
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Majority Element

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#1

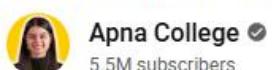
(2) nums[] = {1, 2};
#1, 2

A hand-drawn diagram on a chalkboard. It shows a box labeled "hashmap" containing a key and a value. A red arrow points from the value to a separate box labeled "freq". Another red arrow points from the freq box to the text "freq > n/3". Below the freq box, there is a small note "unique".

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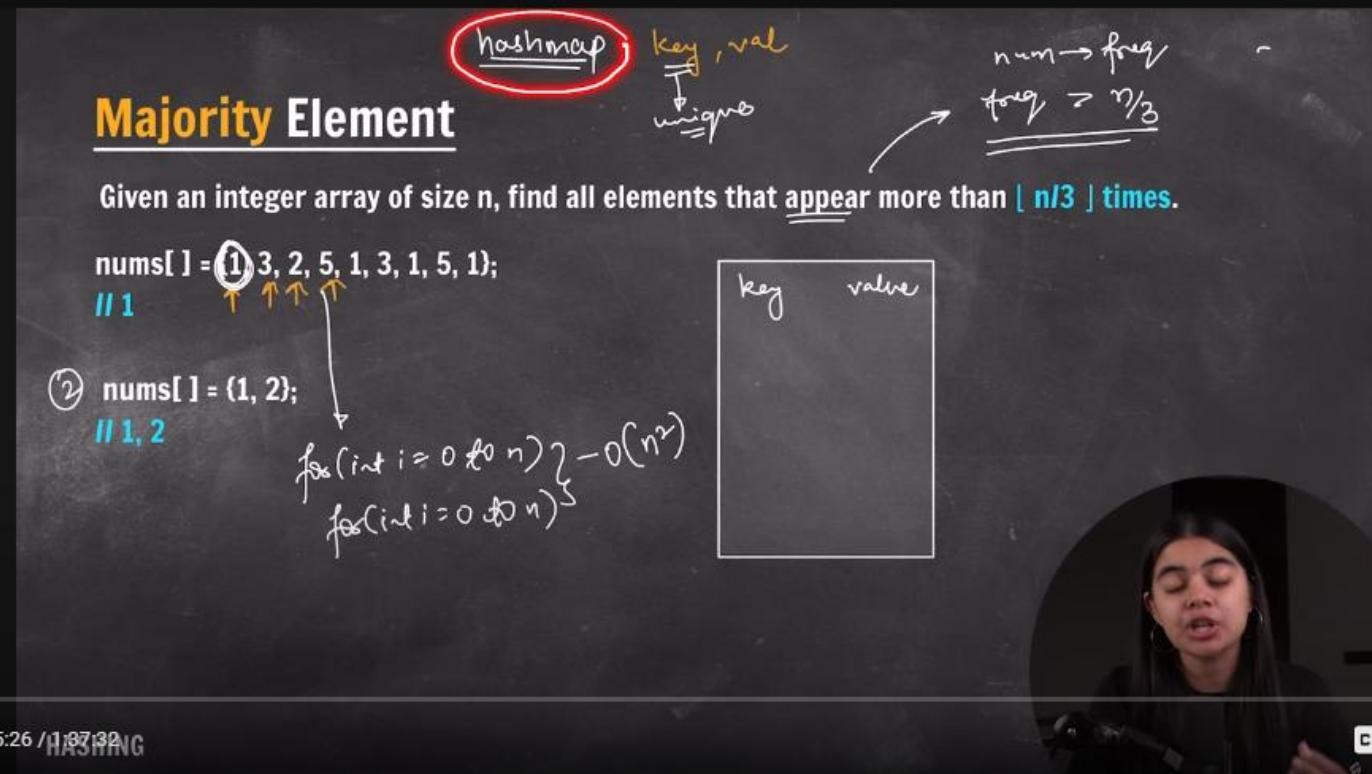
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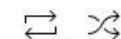
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Majority Element

Given an integer array of size n , find all elements that appear more than $\lfloor n/3 \rfloor$ times.

nums[] = {1, 3, 2, 5, 1, 3, 1, 5, 1};
// 1 ↑↑↑↑

(2) nums[] = {1, 2};
// 1, 2

for(int i = 0 to n){ } - O(n)
for(int i = 0 to n){ }

hashmap
key, val
unique
num → freq
 $\text{freq} > n/3$

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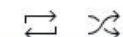
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Majority Element

Given an integer array of size n , find all elements that appear more than $\lfloor n/3 \rfloor$ times.

nums[] = (1, 3, 2, 5, 1, 3, 1, 5, 1);
// 1 1 1 2

(2) nums[] = (1, 2);
// 1, 2

for(int i = 0 to n) $O(n)$
for(int i = 0 to n) $O(n)$

hashmap
key
value
 $num \rightarrow freq$
 $freq > n/3$

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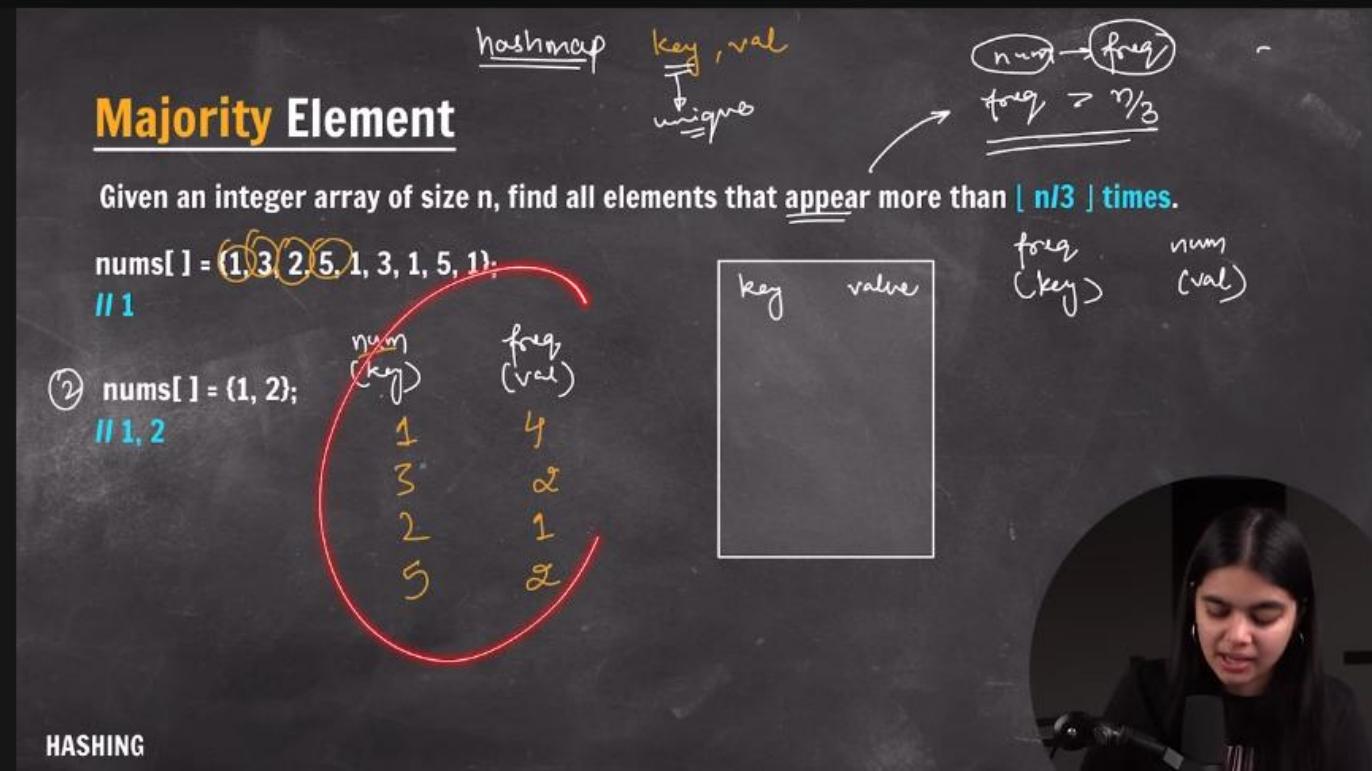


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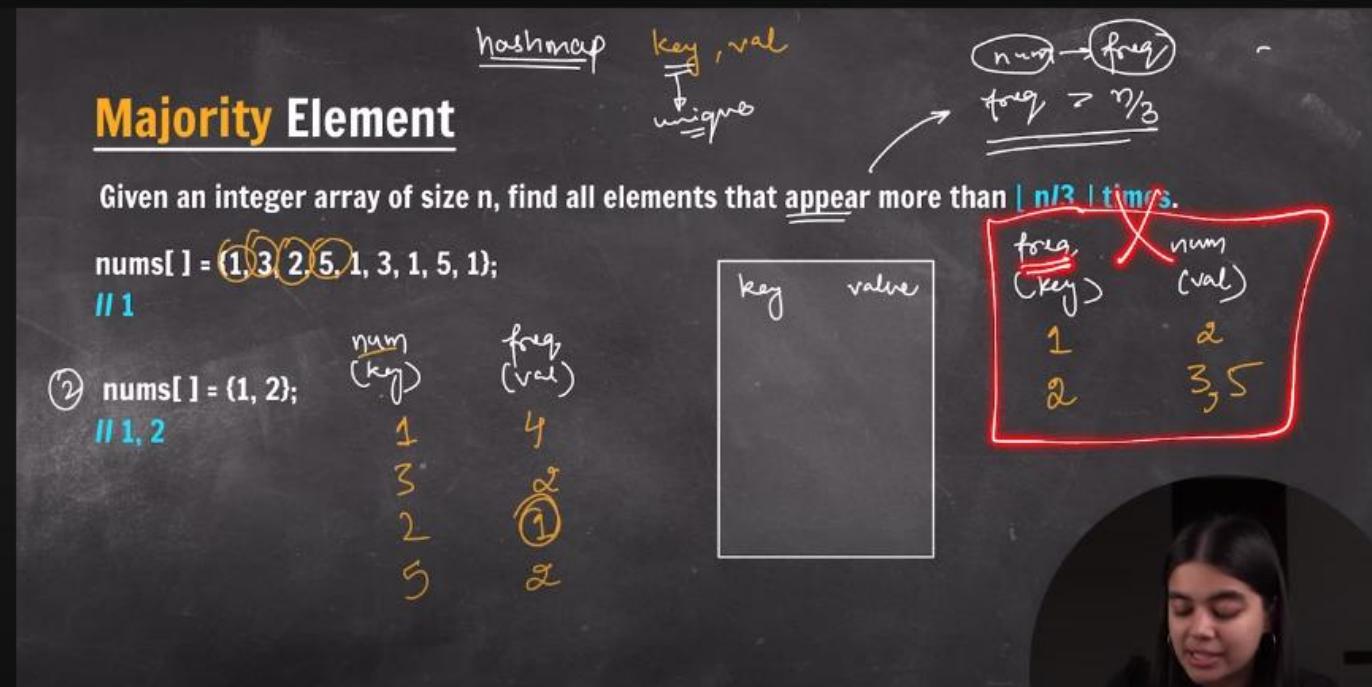
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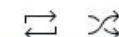
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Majority Element

Given an integer array of size n, find all elements that appear more than $\lfloor n/3 \rfloor$ times.

nums[] = {1, 3, 2, 5, 1, 3, 1, 5, 1};

#1 ↑ 2 3 ↑

#2 nums[] = {1, 2};
#1, 2
 ↓ 1, 3
 key exist

① create map -
HashMap<Integer, Integer> map = new HashMap<>();

② find freq of all nums & store in map

key (num) value (freq)
1 23

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Majority Element

Given an integer array of size n, find all elements that appear more than $\lfloor n/3 \rfloor$ times.

nums[] = (1) 3, 2, 5, 1, 3, 1, 5, 1;
// 1

(2) nums[] = (1, 2);
// 1, 2

1, 3
key exist
update val
freq = freq + 1

key does not exist
add new pair
freq = 1

① create map -
HashMap<integer, integer> map = new HashMap<>();

② find freq of all nums & store in map

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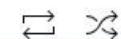
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Majority Element

Given an integer array of size n, find all elements that appear more than $\lfloor n/3 \rfloor$ times.

nums[] = {1, 3, 2, 5, 1, 3, 1, 5, 1};
#1

① create map -
HashMap<integer, integer> map = new HashMap<>();

② find freq of all nums & store in map

key (num) value (freq)

| | |
|---|---|
| 1 | 2 |
| 3 | 1 |
| 2 | 1 |
| 5 | 1 |

③ nums[] = {1, 2};
#1, 2

1, 3
key exist update val freq = freq + 1
key does not exist add new pair freq = 1

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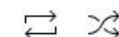
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Majority Element

Given an integer array of size n, find all elements that appear more than $\lfloor n/3 \rfloor$ times.

nums[] = (1, 3, 2, 5, 1, 3, 1, 5, 1);
#1

① create map -
HashMap<Integer, Integer> map = new HashMap<>();

② find freq of all nums & store in map

key (num) value (freq)

| | |
|---|---|
| 1 | 2 |
| 3 | 2 |
| 2 | 1 |
| 5 | 2 |

③ nums[] = (1, 2);
#1, 2

1, 3
key exist update val freq = freq + 1
key does not exist add new pair freq = 1

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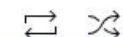
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Majority Element

Given an integer array of size n, find all elements that appear more than $\lfloor n/3 \rfloor$ times.

nums[] = {1, 3, 2, 5, 1, 3, 1, 5, 1};

//1

//1, 2

② nums[] = {1, 2};

nums[i]

(T) key exist
update val
freq = freq + 1

key does not exist
add new pair
freq = 1

① create map -
HashMap<Integer, Integer> map = new HashMap<>();

② find freq of all nums & store in map

key (num) value (freq)

| | |
|---|---|
| 1 | 2 |
| 3 | 2 |
| 2 | 1 |

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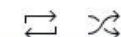
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Majority Element

Given an integer array of size n, find all elements that appear more than $\lfloor n/3 \rfloor$ times.

```
nums[] = {1, 3, 2, 5, 1, 3, 1, 5, 1};  
// 1  
  
② nums[] = {1, 2};  
// 1, 2
```

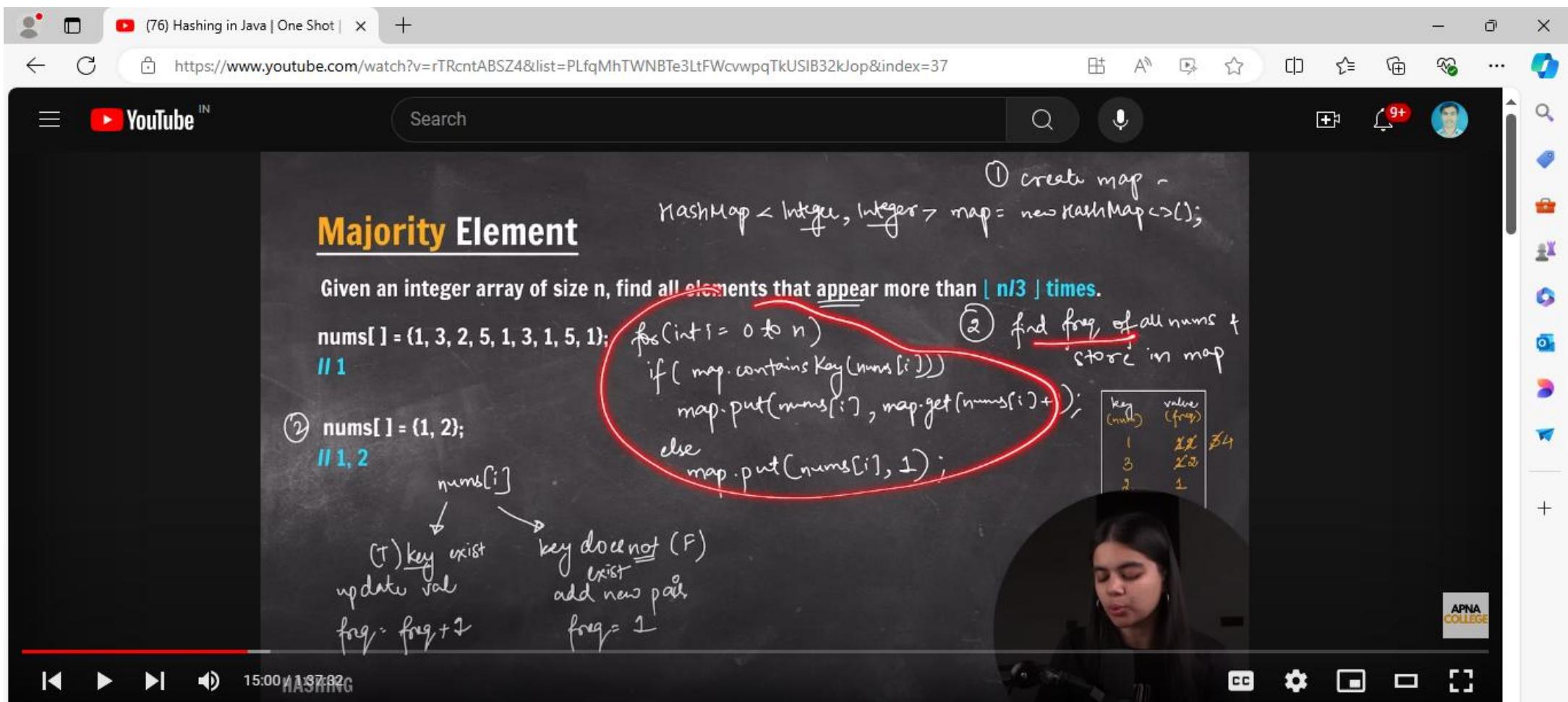
① create map -
HashMap<Integer, Integer> map = new HashMap<>();

② find freq of all nums & store in map

for(int i = 0 to n)
if (map.containsKey(nums[i]))
map.put(nums[i], map.get(nums[i]) + 1);
else
map.put(nums[i], 1);

key (num) value (freq)
1 3
3 2
2 1

(T) key exist update val freq = freq + 1
key does not exist add new pair freq = 1



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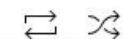
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Majority Element

Given an integer array of size n, find all elements that appear more than $\lfloor \frac{n}{3} \rfloor$ times.

nums[] = {1, 3, 2, 5, 1, 3, 1, 5, 1};
// 1

② nums[] = {1, 2};
// 1, 2

key
map.get(key) > $\frac{n}{3}$
print(key) // 1

NashMap<integer, integer> map = new NashMap<>();

① create map -
② find freq of all nums & store in map
③ map traverse

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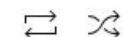
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① create map
② find freq of all nums
store in map
③ map traverse

Majority Element

Given an integer array of size n, find all elements that appear more than $\lfloor \frac{n}{3} \rfloor$ times.

nums[] = {1, 3, 2, 5, 1, 3, 1, 5, 1};
// 1

② nums[] = {1, 2};
// 1, 2

for(int key : map.keySet())

map.get(key) > $\frac{n}{3}$
print(key) // 1

key (num) value (freq)
1 2
3 2
2 1
5 2

1 > 3 X
2 > 3 X

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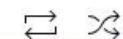
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① create map
② find freq of all nums
store in map
③ map traverse

Majority Element

Given an integer array of size n, find all elements that appear more than $\lfloor n/3 \rfloor$ times.

nums[] = {1, 3, 2, 5, 1, 3, 1, 5, 1};
// 1

② nums[] = {1, 2};
// 1, 2

for(int key : map.keySet())
map.get(key) > n/3
print(key) // 1

key (num) value (freq)

| | |
|---|---|
| 1 | 2 |
| 3 | 2 |
| 2 | 1 |
| 5 | 2 |

1 > 3 X
2 > 3 X

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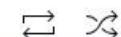
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Union of 2 arrays

arr1 = {7, 3, 9}
arr2 = {6, 3, 9, 2, 9, 4}

union = 6 {7, 3, 9, 6, 2, 4}

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Union of 2 arrays

arr1 = {7, 3, 9}

arr2 = {6, 3, 9, 2, 9, 4}

union = 6 {7, 3, 9, 6, 2, 4}

Set A

U

Set B

combination

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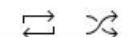
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Union of 2 arrays

arr1 = {7, 3, 9} → {7, 3, 9, 6, 2, 4}

arr2 = {6, 3, 9, 2, 9, 4}

union = {7, 3, 9, 6, 2, 4}

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Union of 2 arrays

① nested loops $O(n^2)$

② sort $O(n \log n)$

arr1 = {7, 3, 9}
arr2 = {6, 3, 9, 2, 9, 4}

union = 6 {7, 3, 9, 6, 2, 4}

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Union of 2 arrays

arr1 = {7, 3, 9} ✓✓
arr2 = {6, 3, 9, 2, 9, 4} ✕
union = 6 {7, 3, 9, 6, 2, 4}

Set A U Set B

unique elems

Hashset (unique)

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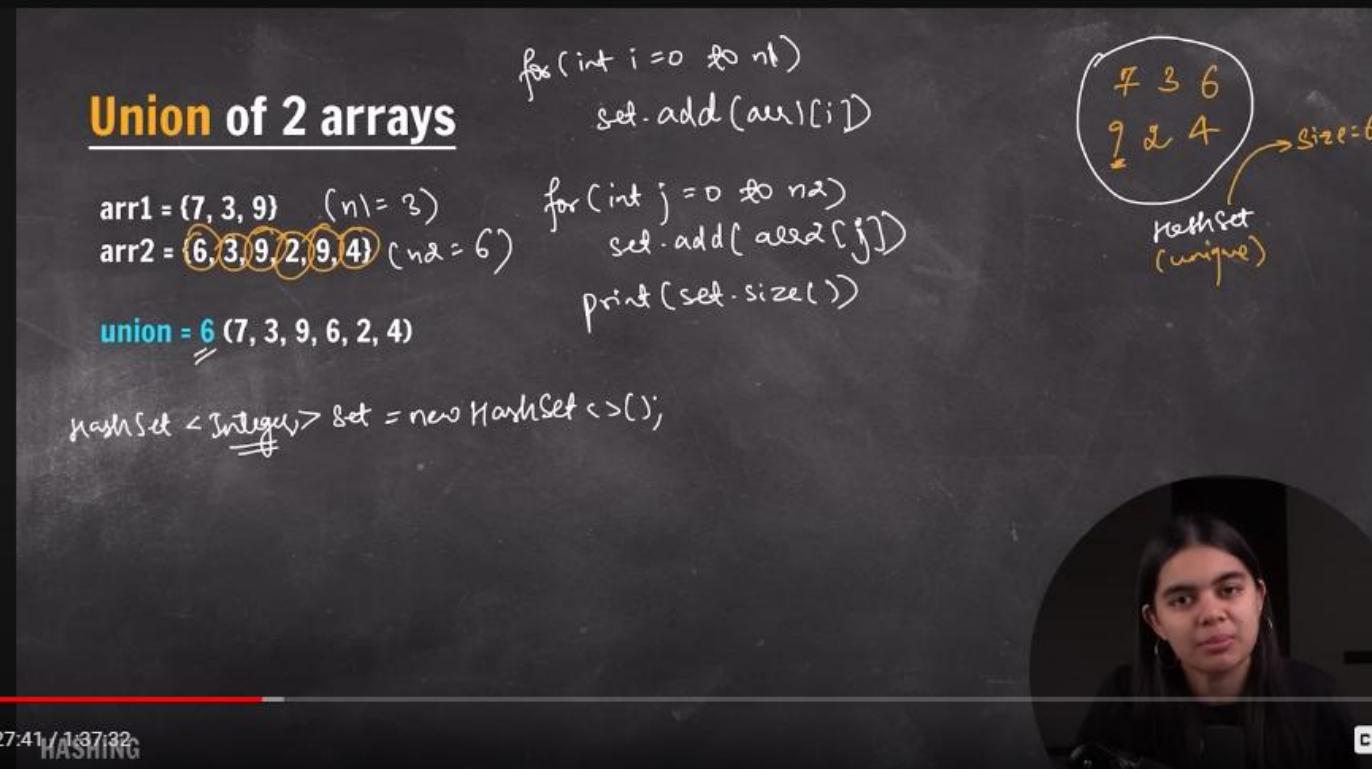


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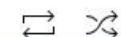
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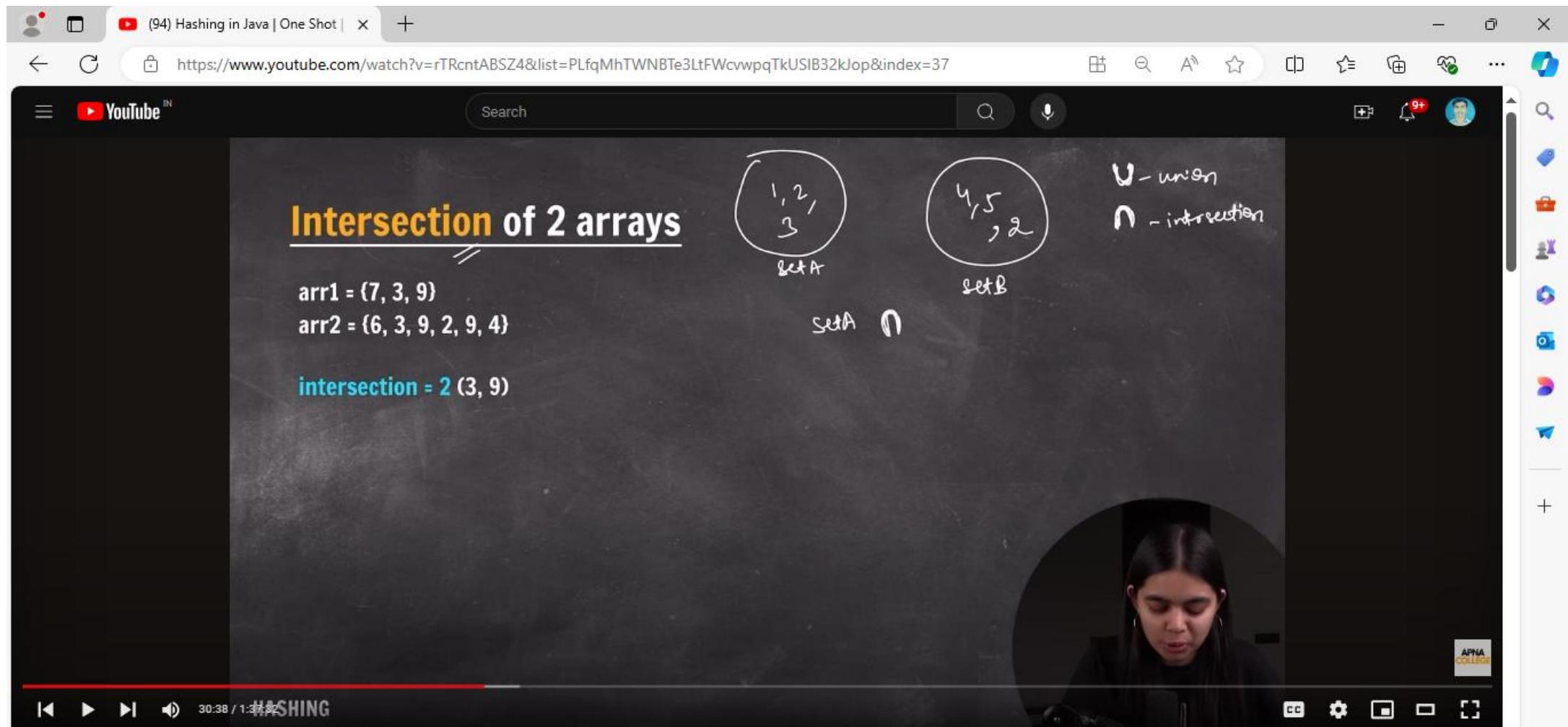
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Intersection of 2 arrays

arr1 = {7, 3, 9}

arr2 = {6, 3, 9, 2, 9, 4}

intersection = 2 (3, 9)

setA ∩ setB
common

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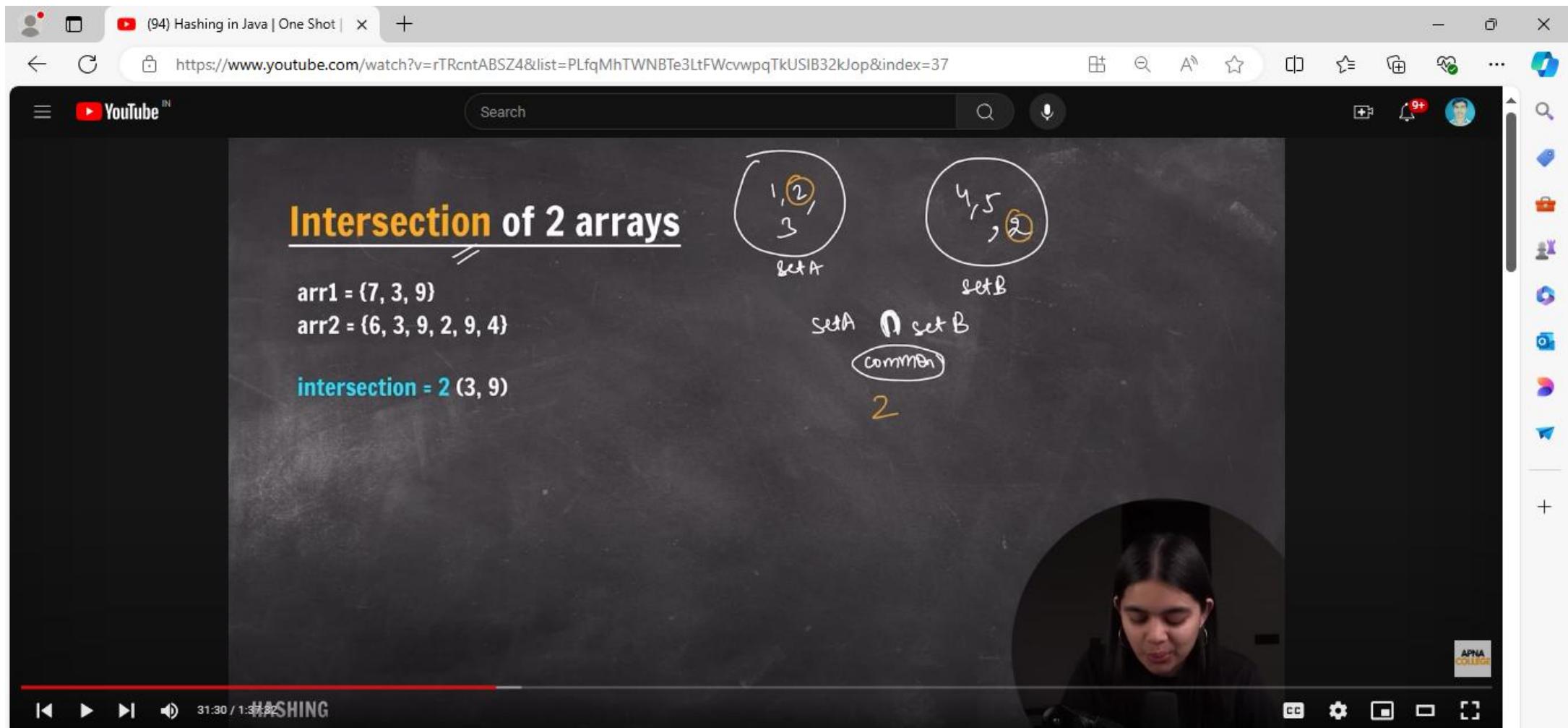


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arr2 = {6, 3, 9, 2, 9, 4} ✓

intersection = 2 (3, 9)

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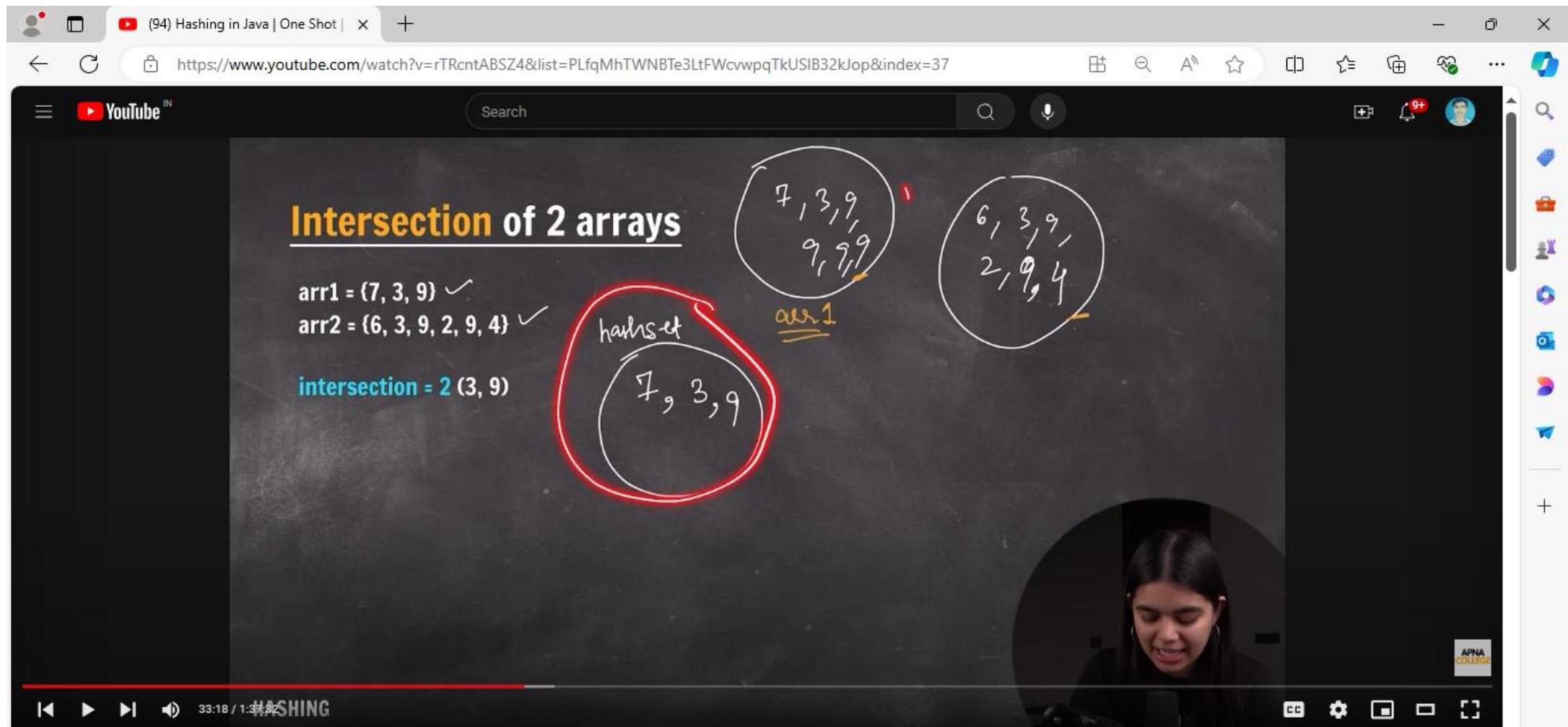
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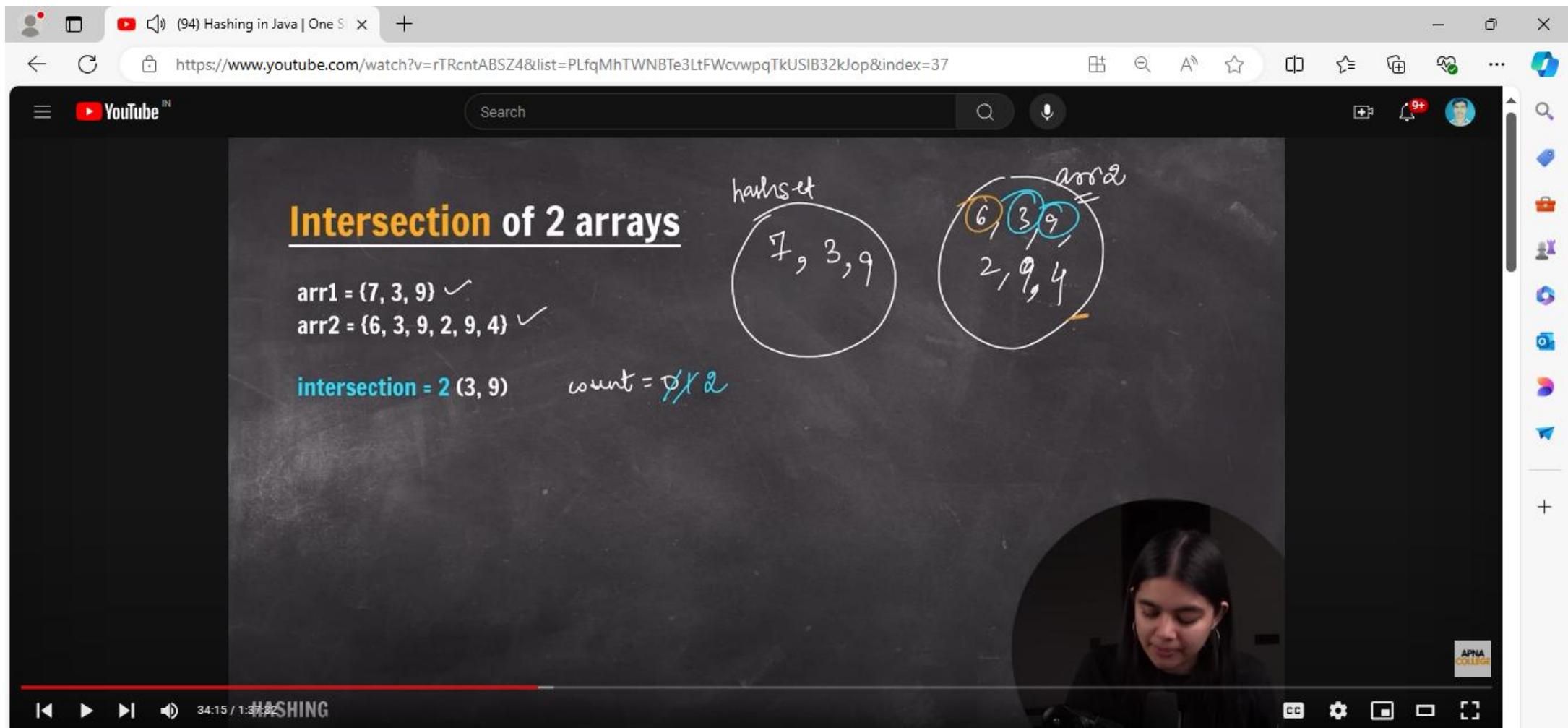
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Intersection of 2 arrays

arr1 = {7, 3, 9} ✓
arr2 = {6, 3, 9, 2, 9, 4} ✓

intersection = 2 (3, 9) count = 0 X 2

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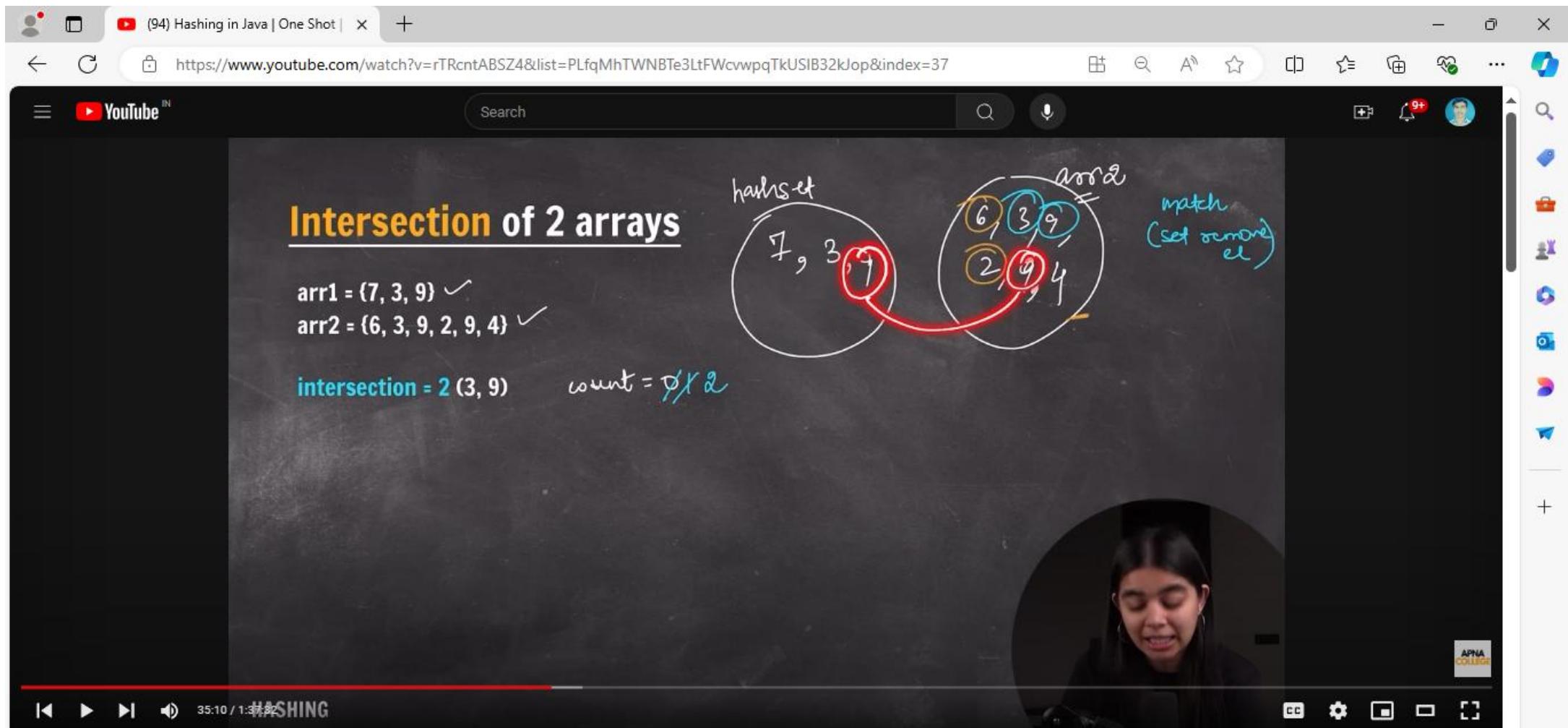


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Intersection of 2 arrays

arr1 = {7, 3, 9} ✓
arr2 = {6, 3, 9, 2, 9, 4} ✓

intersection = 2 (3, 9) count = 0/2

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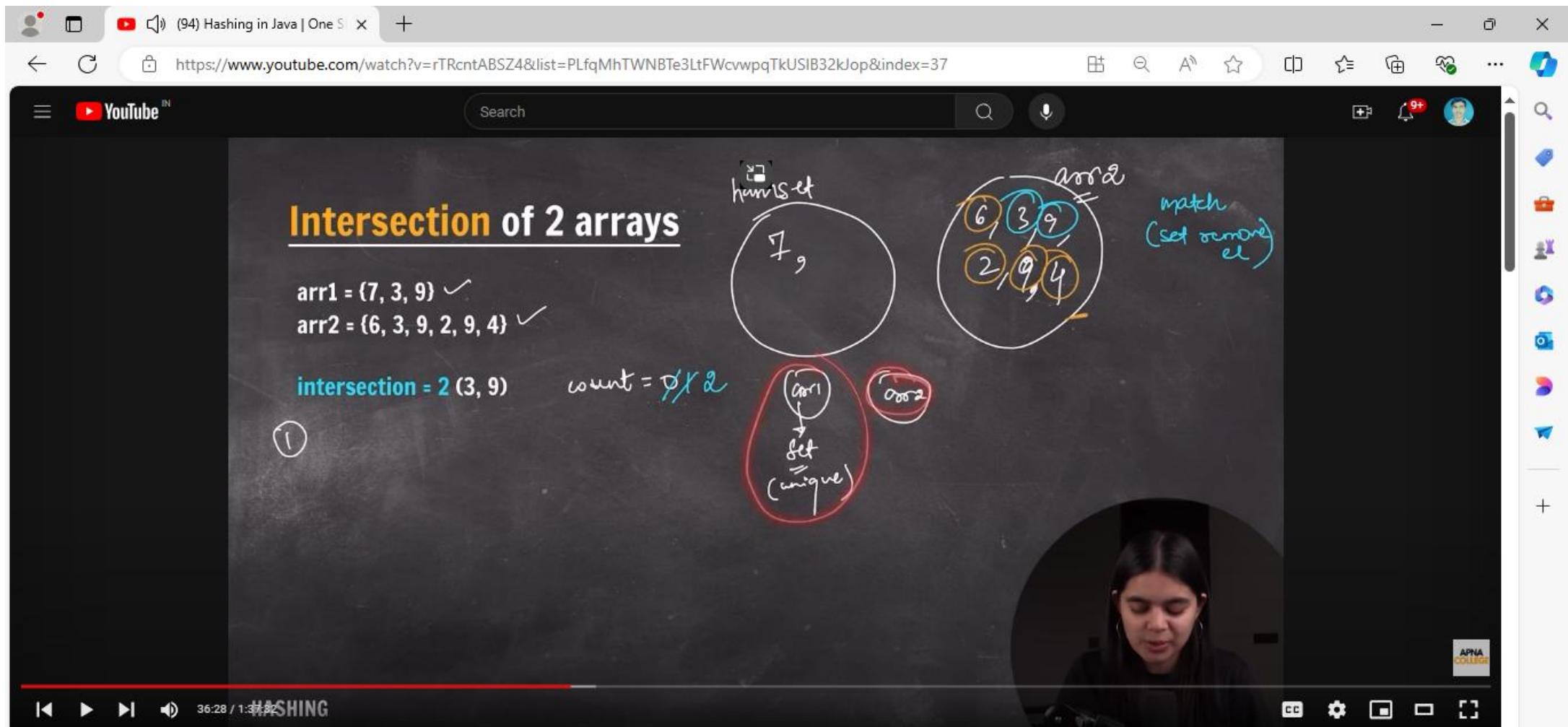
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Intersection of 2 arrays

arr1 = {7, 3, 9} ✓ (n1)
arr2 = {6, 3, 9, 2, 9, 4} ✓ (n2)

intersection = 2 (3, 9) count = 0 X 2

① HashSet create
② for(int i = 0 to n1) {
 set.add(arr1[i]);}
③ for(int j = 0 to n2)
 if (set.contains(arr2[j]))

hashset
7, 3, 9
arr2
6, 3, 9, 2, 9, 4
match
(set remove el)
arr1
arr2
set
(unique)

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arr1 = {7, 3, 9} ✓ (n1)
arr2 = {6, 3, 9, 2, 9, 4} ✓ (n2)

intersection = 2 (3, 9) count = 0 X 2

- ① HashSet create; count = 0
- ② for(int i=0 to n1){
 set.add(arr1[i])}
- ③ for(int j=0 to n2){
 if (set.contains(arr2[j])) //match
 count++
 set.remove(arr2[j])}

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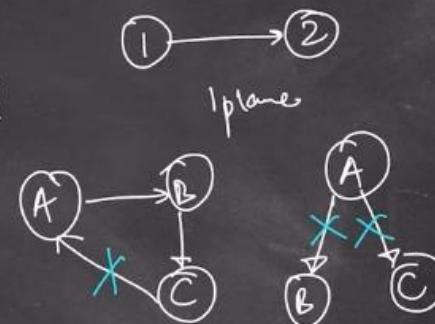
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① Start ✓

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"Goa" -> "Chennai"
"Delhi" -> "Goa"

HashMap
(String, String)
K V

K V
"Chenna" "Beng"
"Mumb" "Delhi"
"Goa" "Chenna"

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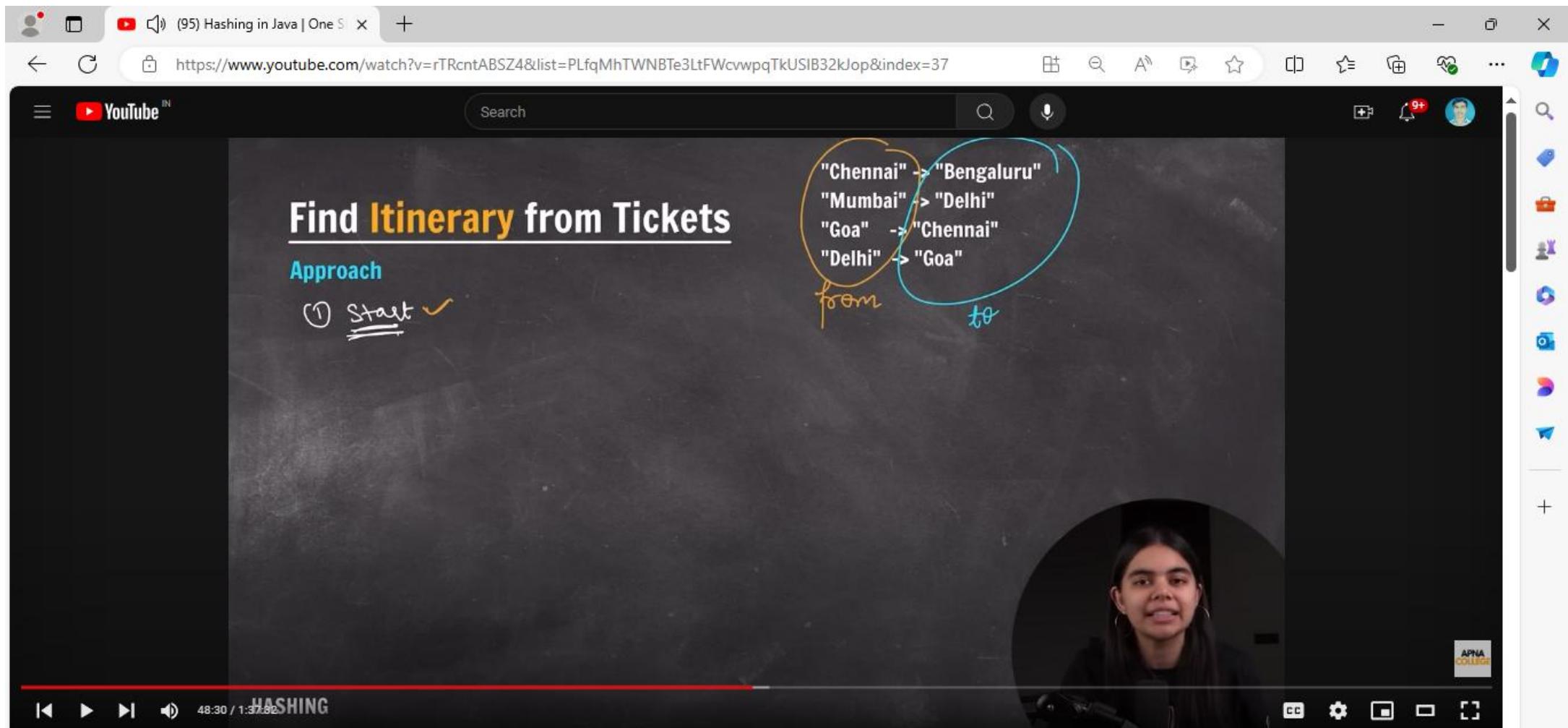


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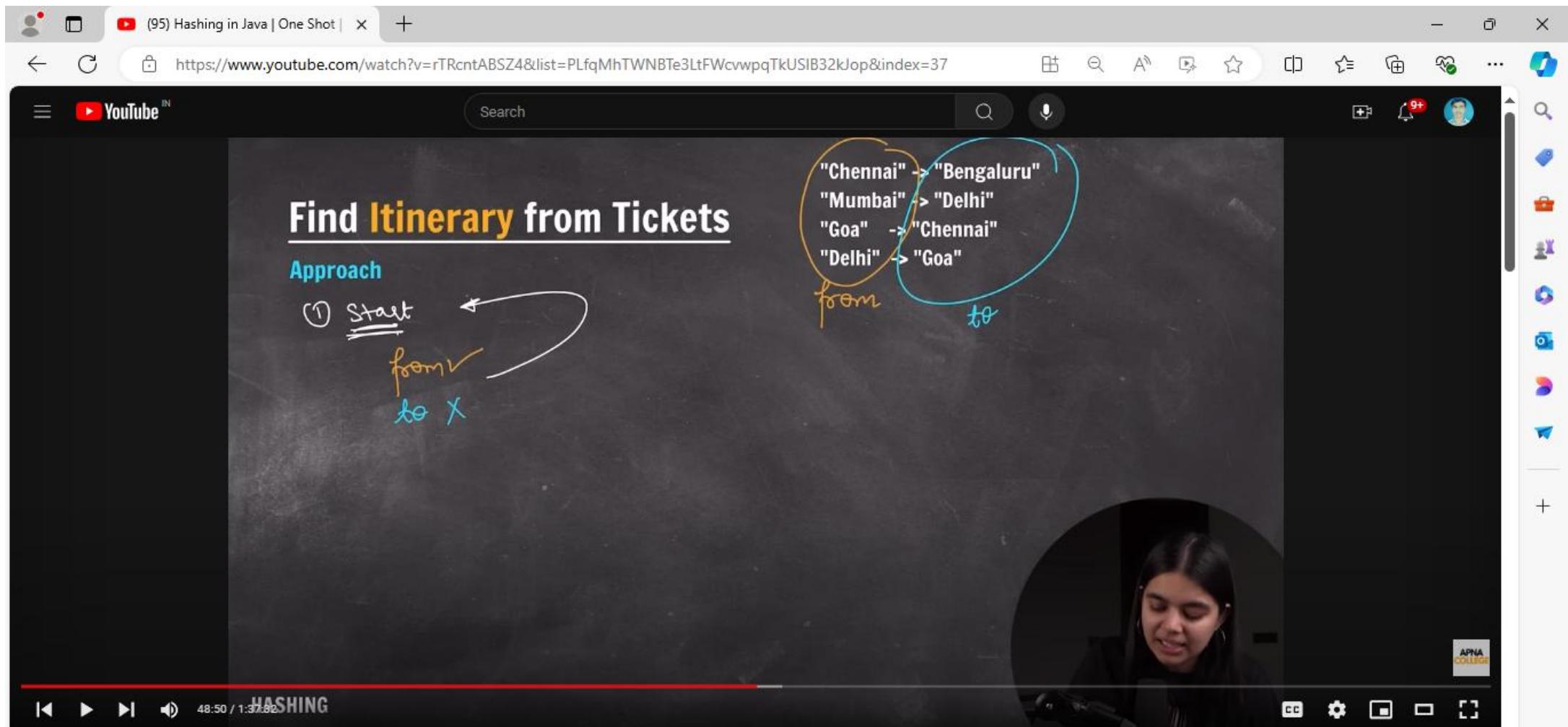
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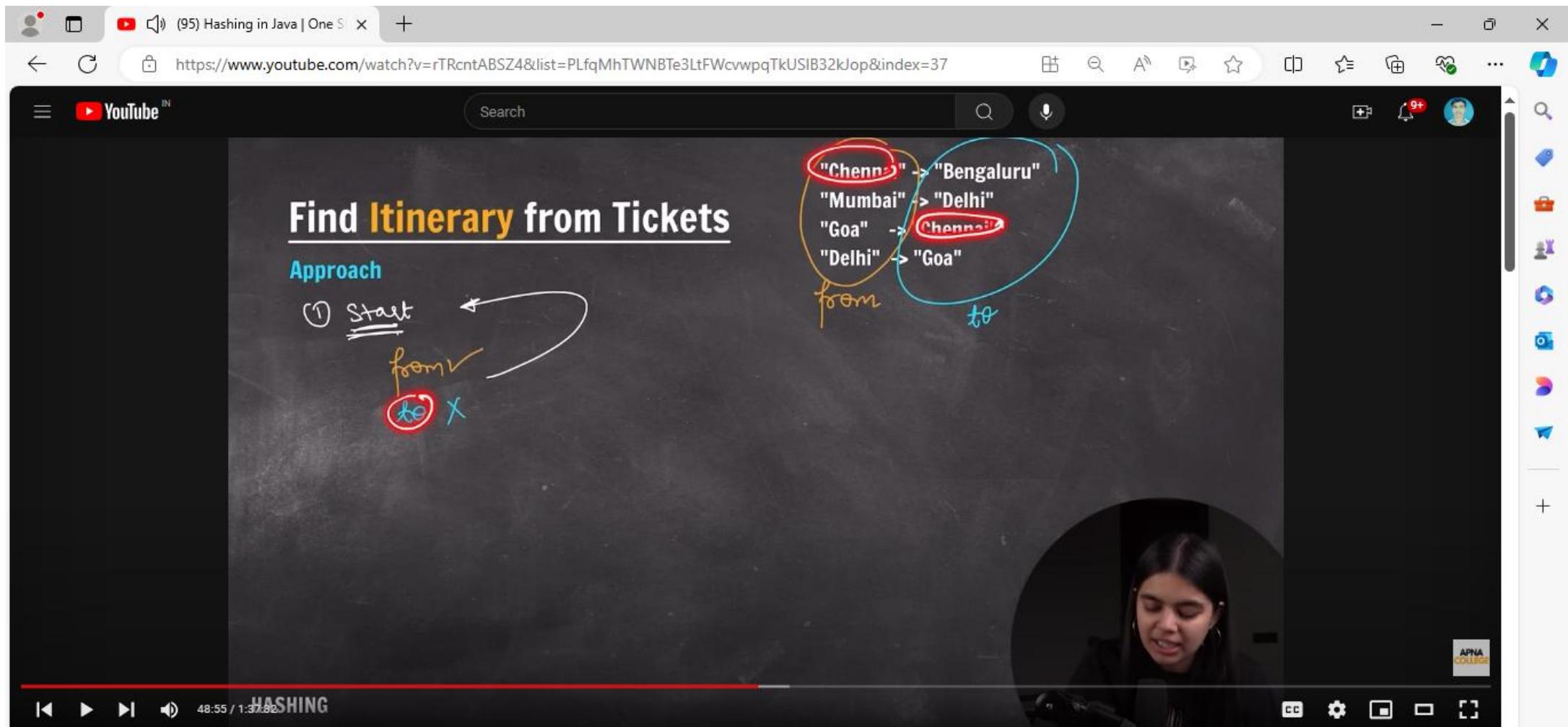
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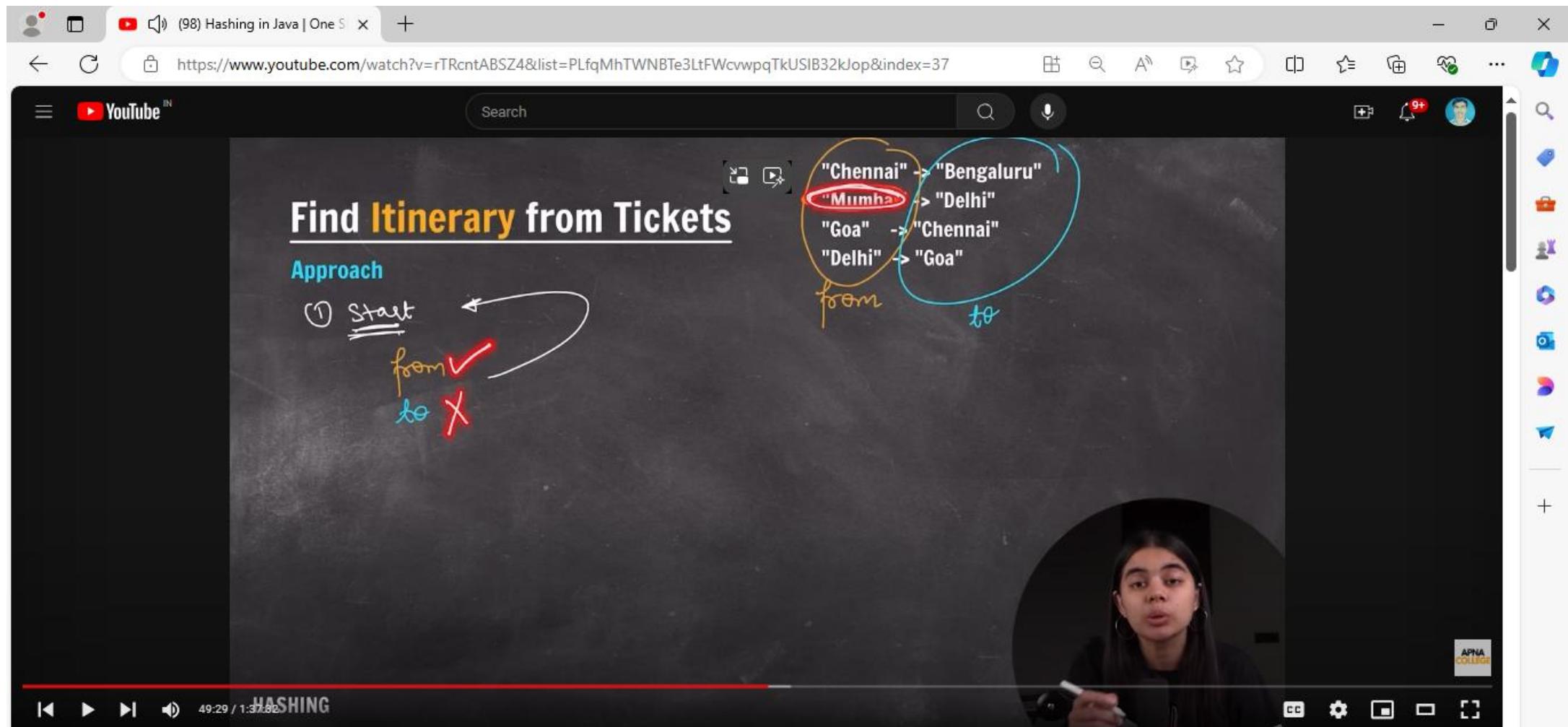


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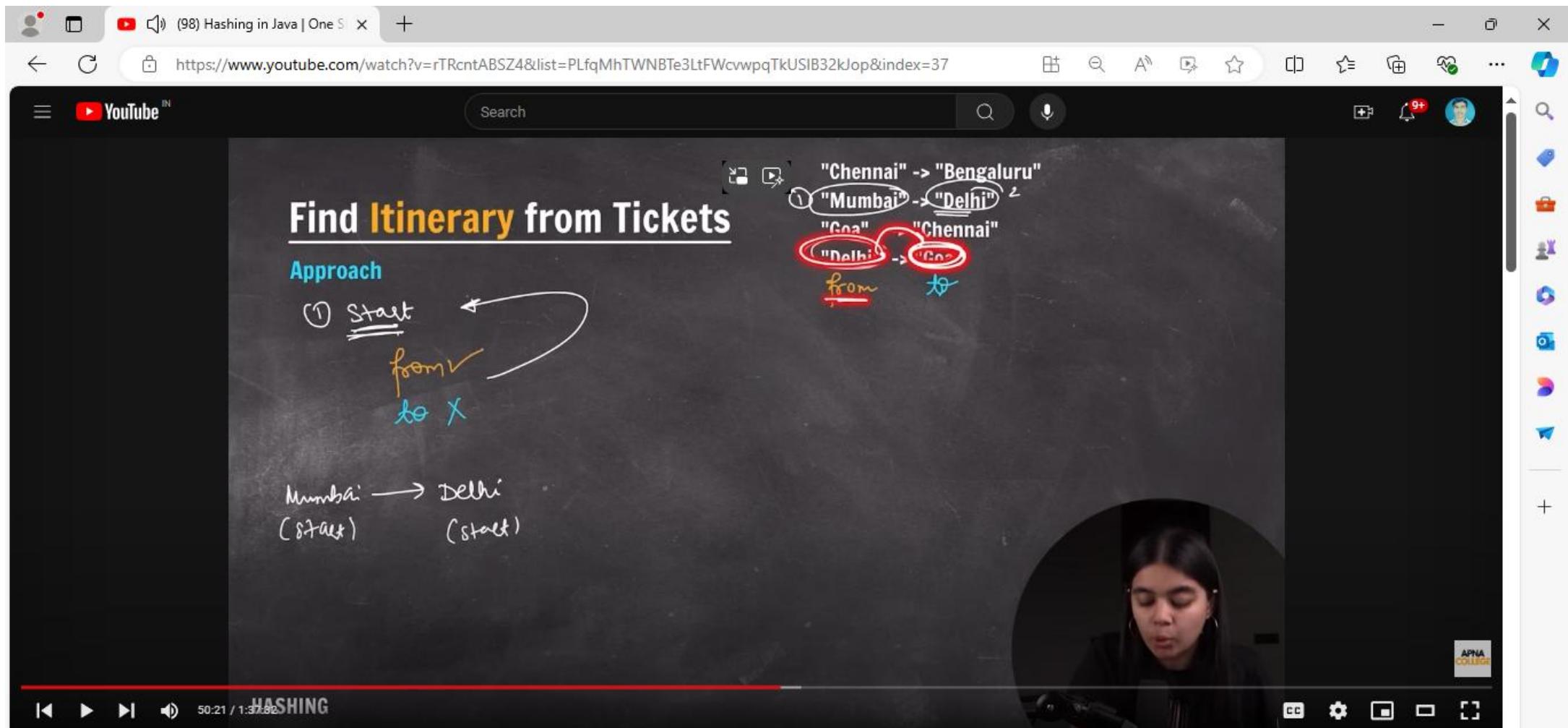
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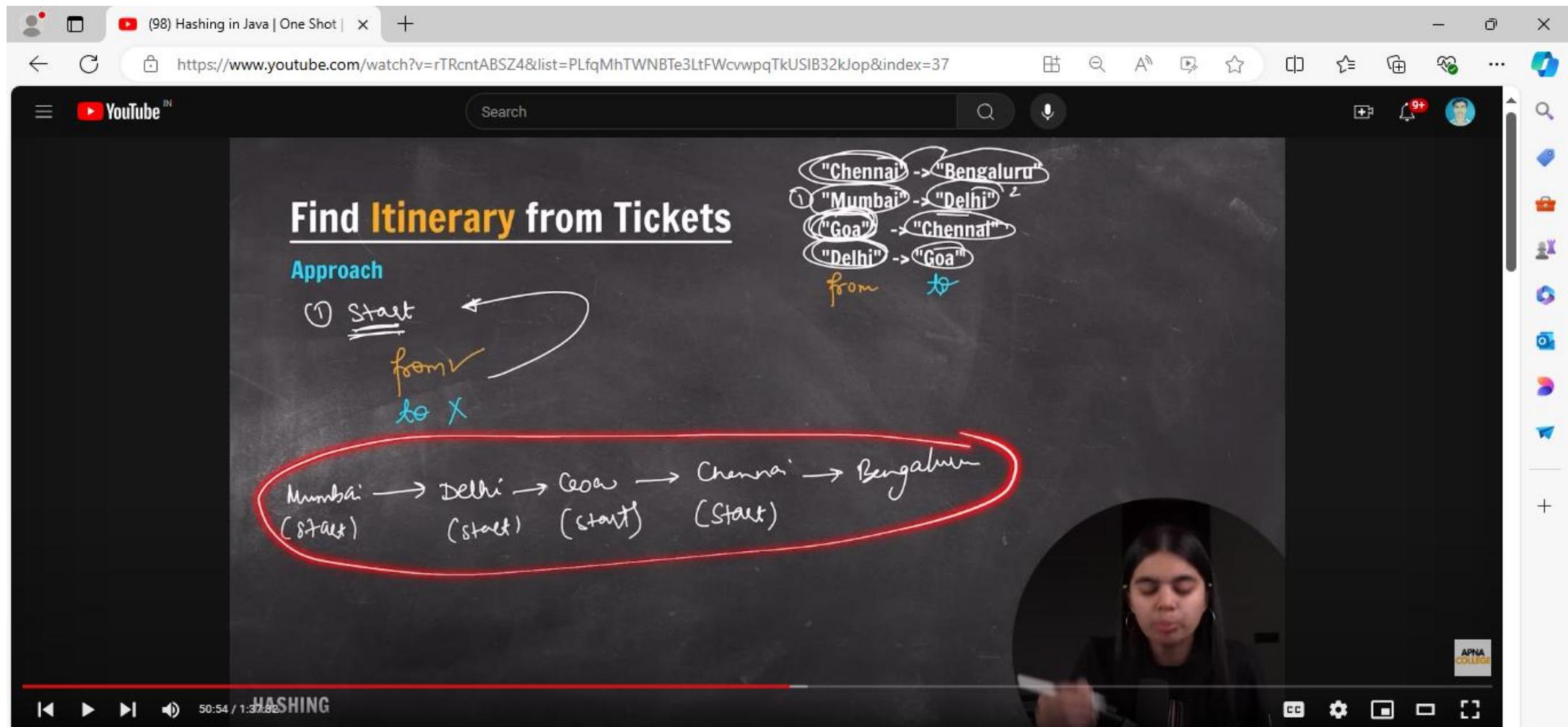
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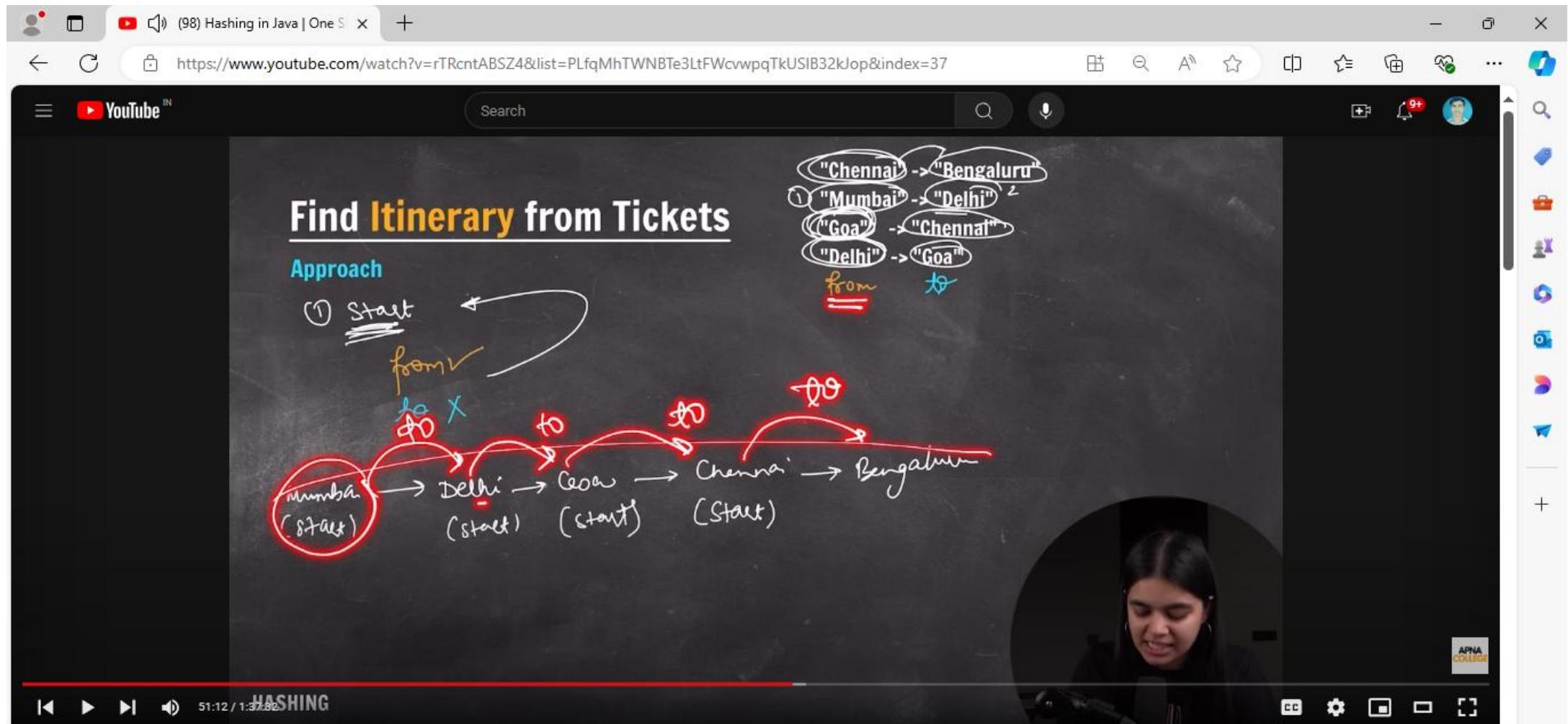
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① Start
map.containsKey()

Chennai -> Bengaluru
Mumbai -> Delhi
Goa -> Chennai
Delhi -> Goa
from ✓
to X

Key val
Key val
Key val
Key val

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map.containsKey()

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B

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"Delhi" -> "Goa"
from to
tick ↑

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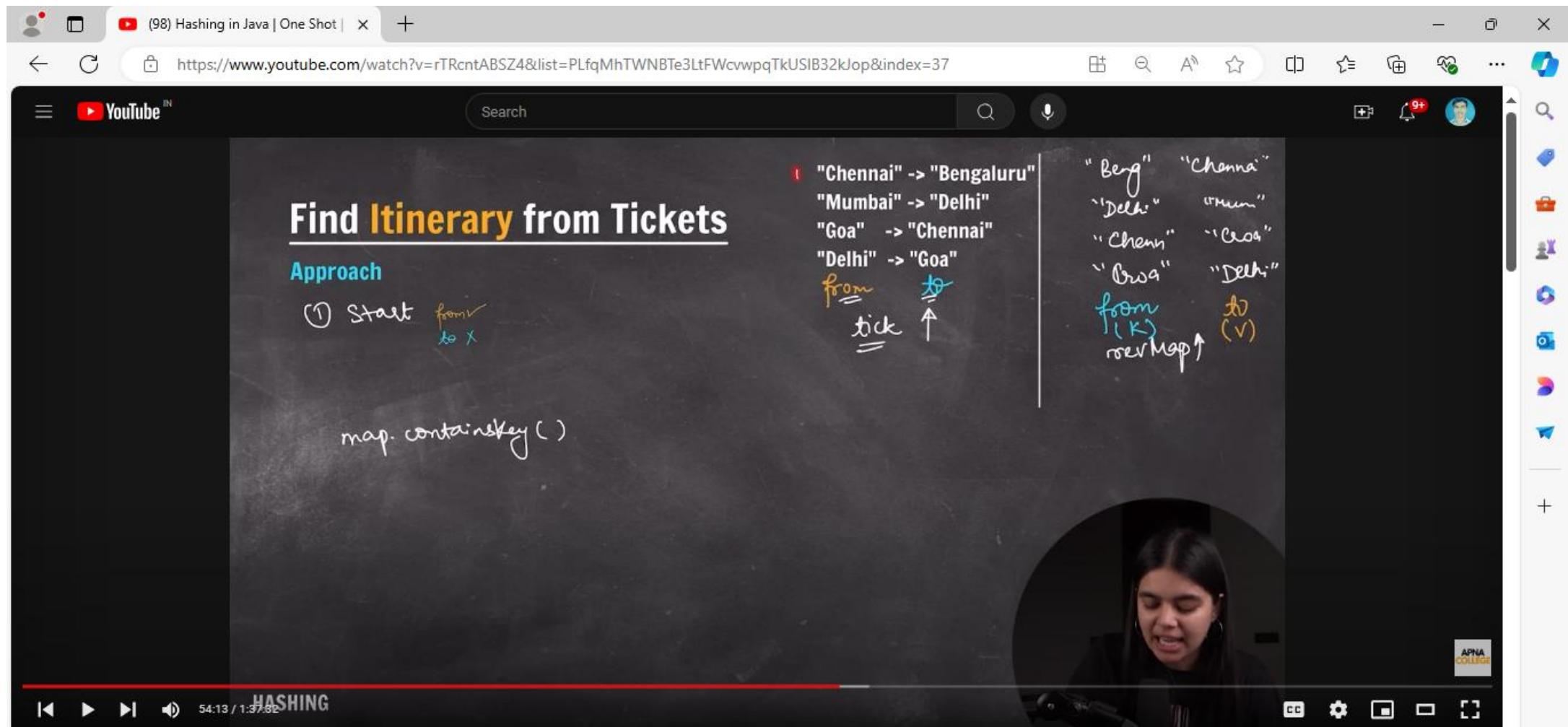
① Start *from* *to*

map.containsKey()

"Chennai" -> "Bengaluru"
"Mumbai" -> "Delhi"
"Goa" -> "Chennai"
"Delhi" -> "Goa"

from *to*
tick ↑

"Beng" "Chenna"
"Delhi" "Mum"
"Chenn" "Gao"
"Gra" "Delhi"
"from" "to"
(K) revMap ↑
(V)



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① Start *from* *to*

map.containsKey()

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"Mumbai" -> "Delhi"
"Goa" -> "Chennai"
"Delhi" -> "Goa"

from *to*
tick ↑

from *to*
(K) (V)
rev Map ↑

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① Start *from* *to* *from*

```
for (String key : tick.keySet())  
    if (revMap.containsKey(key) == false)  
        return key || start
```

"Chennai" -> "Bengaluru"
"Mumbai" -> "Delhi"
"Goa" -> "Chennai"
"Delhi" -> "Goa"

from *to*
tick ↑

Beng "Chenna"
"Delhi" "Mum"
"Chenn" "Goa"
"Gra" "Delhi"
from *to*
(K) (V)
revMap ↑

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Find Itinerary from Tickets

Approach

① Start *from* *to* *from*

```
for (String key : tick.keySet())  
    if (revMap.containsKey(key) == false)  
        return key || start
```

"Chennai" -> "Bengaluru"
"Mumbai" -> "Delhi"
"Goa" -> "Chennai"
"Delhi" -> "Goa"

from tick to revMap

Beng "Chenna"
"Delhi" "Mumbai"
"Chenn" "Goa"
"Gra" "Delhi"
from (K) to (V)

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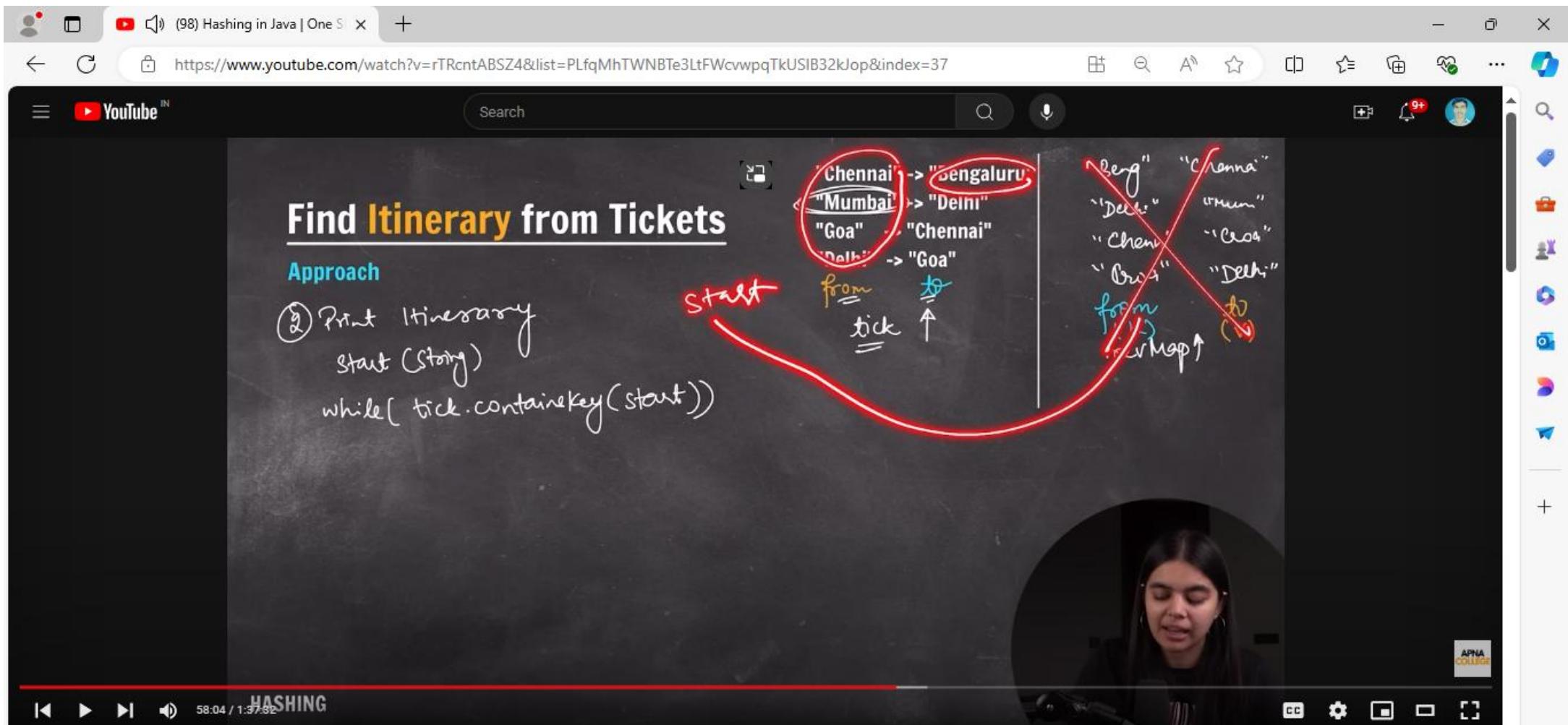


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Find Itinerary from Tickets

Approach

② Print Itinerary
start (String)
while(tick.containsKey(start)) {
 point(start)
 start = tick.get(start)
}

"Chennai" -> "Bengaluru"
"Mumbai" -> "Delhi"
"Goa" -> "Chennai"
"Delhi" -> "Goa"
from tick ↑
to revMap ↑

Beng "Chenna"
"Delhi" "Mumbai"
"Chenn" "Goa"
"Gra" "Delhi"
from (K) to (V)

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Find Itinerary from Tickets

Approach

② Print Itinerary
start (String)
while(tick.containsKey(start)) {
 print(start)
 start = tick.get(start)
}
print (start)

"Chennai" -> "Bengaluru"
"Mumbai" -> "Delhi"
"Goa" -> "Chennai"
"Delhi" -> "Goa"
from tick to
from (K) revMap (V)

Beng "Chenna"
"Delhi" "Mumbai"
"Chenn" "Goa"
"Beng" "Delhi"
from (K) revMap (V)

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MS, Goa

Find Itinerary from Tickets

Approach

② Print Itinerary
start (String)
while(tick.containsKey(start)) {
 print(start)
 start = tick.get(start)
}
print(start)

"Chennai" -> "Bengaluru"
"Mumbai" -> "Delhi"
"Goa" -> "Chennai"
"Delhi" -> "Goa"
from tick ↑
"Beng" "Chenna"
"Delhi" "Mumbai"
"Chenn" "Goa"
"Goa" "Delhi"
from (K) to (V)
reverseMap ↑
Mumbai
Delhi
Goa
Chennai
Bengaluru } Itinerary

1:01:14 / 1:37:32 HASHING

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Subarray sum equal to K

arr = {1, 2, 3} K=3 return number of such subarrays

ans = 2 (1, 2) (3)

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Subarray sum equal to ~~K~~ 0

arr = {1, 2, 3} K=3 return number of such subarrays

ans = 2 (1, 2) (3)

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Subarray sum equal to ~~K~~ 14

arr = {1, 2, 3} K=3 return number of such subarrays

ans = 2 (1, 2) (3)

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arr = {1, 2, 3} K=3 return number of such subarrays

ans = 2 (1, 2) (3)

1+2 = 3 = K
= 3 = K

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① Bowe nested loop $O(n^2)$

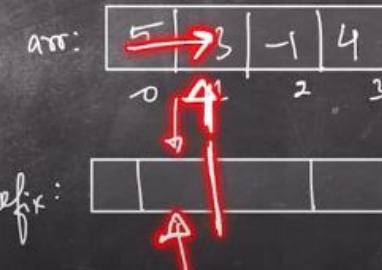
for

② prefix sum

Subarray sum equal to K

arr = {1, 2, 3} K=3 return number of such subarrays

ans = 2 (1, 2) (3)

arr: 

prefix: 

$i \longleftrightarrow j$
sum
 $\text{prefix}(j) - \text{prefix}(i-1)$



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① Bowe nested loop $O(n^3)$

for

② prefix sum

Subarray sum equal to K

arr = {1, 2, 3} K=3 return number of such subarrays

ans = 2 (1, 2) (3)

arr:
$$\begin{matrix} 5 & 3 & -1 & 4 \\ \hline 0 & 1 & 2 & 3 \end{matrix}$$

$i \longleftrightarrow j$

sum

$\text{prefix}(j) - \text{prefix}(i-1)$

prefix:
$$\begin{matrix} 5 & & & \end{matrix}$$

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Subarray sum equal to K

arr = {1, 2, 3} K=3 return number of such subarrays

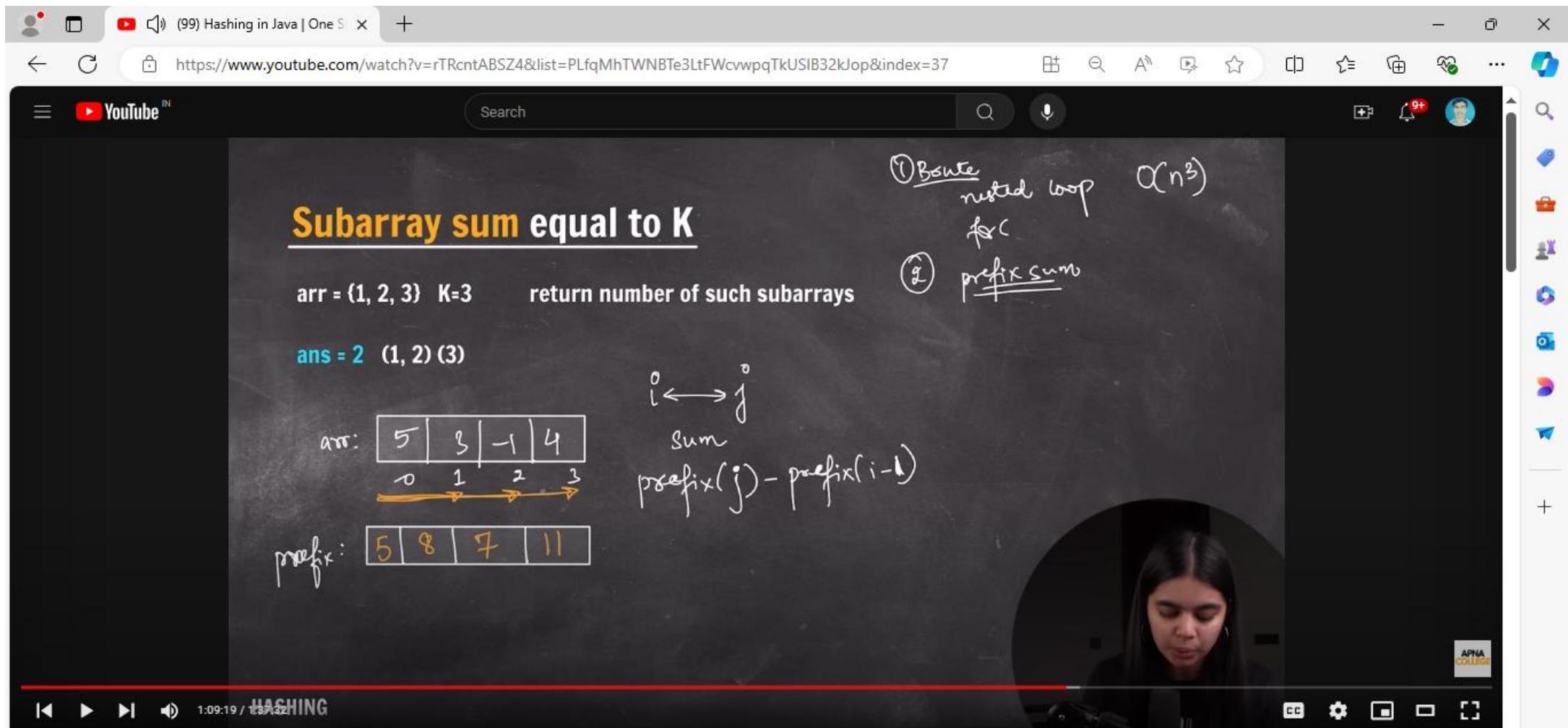
ans = 2 (1, 2) (3)

arr: $\begin{bmatrix} 5 & 3 & -1 & 4 \end{bmatrix}$

prefix: $\begin{bmatrix} 5 & 8 & 7 & 11 \end{bmatrix}$

$i \longleftrightarrow j$
sum
 $\text{prefix}(j) - \text{prefix}(i-1)$

① Bowe nested loop $O(n^2)$
for
② prefix sum



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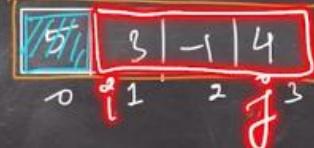
① Bowe
nested loop
 $\Theta(n^3)$

② prefix sum

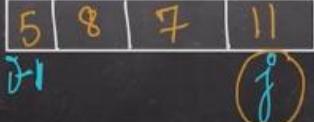
Subarray sum equal to K

arr = {1, 2, 3} K=3 return number of such subarrays

ans = 2 (1, 2) (3)

arr: 

$i \longleftrightarrow j$
sum
 $\text{prefix}(j) - \text{prefix}(i-1)$

prefix: 



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Subarray sum equal to K

arr = {1, 2, 3} K=3 return number of such subarrays

ans = 2 (1, 2) (3)

① Bowe nested loop $O(n^3)$

for (i=0 to n) for (j=i+1 to n)

② prefix sum $O(n^2)$

for (i=0 to n) for (j=0 to i)

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

$\text{sub}(i, j) = \underline{\text{sub}(j)} - \text{sub}(i-1)$

$\text{sub}(i, j) = \text{prefix}(j) - \text{prefix}(i-1)$

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Sub(i, j) = sub(j) - sub(i-1)

Subarray sum equal to K

Approach

arr = [10, 2, -2, -20, 10] k = -10

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

$\sum_{i=j}^{j-1} (i, j) = \underline{\underline{\text{sub}(j)}} - \underline{\underline{\text{sub}(i-1)}}$

$K = \underline{\underline{\text{sub}(j)}} - \underline{\underline{\text{sub}(i-1)}}$

$a = b - c$

$y = 2 - c$

$c = -2$

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

Handwritten notes on chalkboard:

$$\text{sub}(i, j) = \underline{\underline{\text{sub}(j)}} - \underline{\underline{\text{sub}(i-1)}}$$
$$K = \underline{\underline{\text{sub}(j)}} - \underline{\underline{\text{sub}(i-1)}}$$
$$\text{sub}(j) - K = \underline{\underline{\text{sub}(i-1)}}$$

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

$\text{sub}(j) - k = \text{sub}(i-1)$

$a - k = b$

$4 - 3 = 1$

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

j=0 j=1 j=2

sub(j)-k = sub(i-1)

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Approach

arr = {10, 2, -2, -20} 10 k = -10

j=0 j=1 j=2 j=3

sub(j) k = sub(i-1)

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Approach

arr = {10, 2, -2, -20, 10} $k = -10$

$\sum_{j=0}^0 = 0 \Rightarrow \sum_{j=0}^0 = 10$

$\sum_{j=0}^1 = 12$

$\sum_{j=0}^2 = 10$

$\sum_{j=0}^3 = -10$

$\sum_{j=0}^4 = 0$

Sub(j) - $k = \text{Sub}(i-1)$

Sum

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

sum = 0 \Rightarrow sum = 10 j=0

sum = 12 j=1

sum = 10 j=2

sum = -10 j=3

sum = 0 j=4

sub(j) - K = sub(i-1)

Sum - K

K

Sum

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

sum = 0 \Rightarrow sum = 10 j = 0

sum = 12 j = 1

sum = 10 j = 2

sum = -10 j = 3

sum = 0 j = 4

sub(j) - K = sub(i - 1)

Sum - K

K

Sum

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Approach

arr = {10, 2, -2, -20, 10} k = -10

sum = 0 \Rightarrow sum = 10 j=0

sum = 12 j=1

sum = 10 j=2

sum = -10 j=3

sum = 0 j=4

Diagram illustrating the subarray sum equal to K problem:

sub(j) - K = sub(i - 1)

Sum - K

K

Sum

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

sum = 0 \Rightarrow sum = 10 j = 0

sum = 12 j = 1

sum = 10 j = 2

sum = -10 j = 3

sum = 0 j = 4

sub(j) - K = sub(i - 1)

Sum - K

K

Sum

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Approach

arr = {10, 2, -2, -20, 10} k = -10

sum - K = sub(i-1)

sub(j)

K ✓

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

sum - K = sub(i-1)

sub()

map.

O(1)

K ✓

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Approach

arr = {10, 2, -2, -20, 10} k = -10

sum - K = sub(i-1)

sub(j) \rightarrow TC ↓

K ✓

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Approach

arr = {10, 2, -2, -20, 10} k = -10

sum - K = sub(i-1)

sub(j)

map

K ✓

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

sum - K = sub(i-1)

sub(j)

K = 6

ans = 2

Sum - K

K (sum) ✓ (freq)

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

sum - K = sub(i-1)

sub(j) < 0, 1 >

$\boxed{1 \ | \ -1 \ | \ 1 \ | \ 5}$

$\begin{matrix} 1 & j=0 \\ 0 & j=1 \\ 1 & j=2 \\ \text{Sum } -K & j=3 \end{matrix}$

$K=6$

$\text{ans}=2$

$\text{sum} = 6 - 6 = 0$

K (sum) ✓ (freq)

0 1

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

sum - K = sub(i-1)

sub(j)

6 = K
K = 6
ans = 0

Sum - K
0
1
1
1
1
sum = 6 - 6 = 0
ans = (sum - K)
ans = 0

K (sum) ✓ (freq)
0 1 0 1

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

sum - K = sub(i-1)

sub(j)

$G = K$ $K = 6$ $ans = 0$

$Sum - K$

$i=0$ $i=1$ $i=2$ $i=3$

$j=0$ $j=1$ $j=2$ $j=3$

$Sum = 6$ $Sum = 6 - 6 = 0$ $ans = (Sum - K)$

$Sum = 6 - 6 - 2 = -2$ $ans = -2$

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

sum - K = sub(i-1)

① HashMap<Int, Int>

↓
sum freq

map.put(0, 1) //empty subarr

②

K (sum) ✓ (freq)
0 1

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

j=0 sum=10 sum-K = 10 - (-10) = 10 + 10 = 20

① HashMap<Int, Int>

map.put(0, 1) //empty subarr

sum freq

sum-K = sub(i-1)

ans=0

K (sum) ✓ (freq)

0 1

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

j=0
sum=10

① HashMap<int, int>
sum freq
map.put(0, 1) //empty subarr

② for(j=0 to n)
if (sum-k → exists in map)
ans += map.get(sum-k)

map

| K (sum) | ✓ (freq) |
|---------|----------|
| 0 | 1 |
| 10 | 1 |

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

sum = 10
j=0

for(j=0 to n)
if (sum - k → exists in map)
ans += map.get(sum - k)
sum → map exists (freq + 1)
X (freq = 1)

map

| K (sum) | (freq) |
|---------|--------|
| 0 | 1 |
| 10 | 1 |

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

Sum = 12

for (j=0 to n) if (sum - k → exists in map) ans += map.get(sum - k)

sum → map exists (freq + 1) → X (freq + 1)

map

| K (sum) | ✓ (freq) |
|---------|----------|
| 0 | 1 |
| 10 | 1 |
| 12 | 1 |

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Subarray sum equal to K

Approach

arr = {10, 2, -2, -20, 10} k = -10

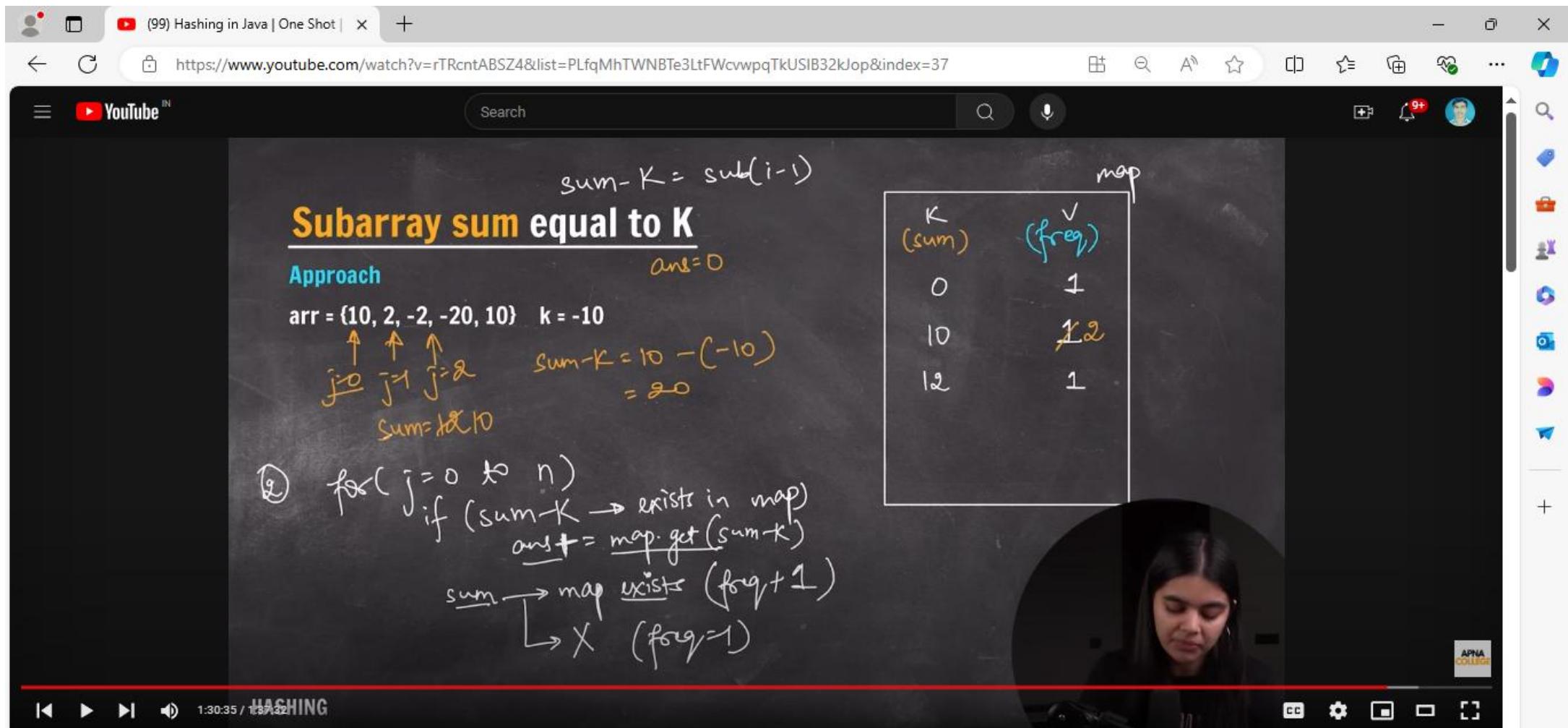
sum = 10
j=0 j=1 j=2
 $\sum_{j=0}^{j=2} = 10 - (-10) = 20$

$\text{sum} - K = \text{sub}(i-1)$
 $\text{ans} = 0$

map

| K (sum) | (freq) |
|---------|--------|
| 0 | 1 |
| 10 | 12 |
| 12 | 1 |

② for(j=0 to n)
if ($\text{sum} - K \rightarrow \text{exists in map}$)
 $\text{ans} += \text{map.get}(\text{sum} - K)$
 $\text{sum} \rightarrow \text{map exists } (\text{freq} + 1)$
 $\rightarrow X (\text{freq} + 1)$



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Approach

arr = {10, 2, -2, -20, 10} k = -10

sum = 10 + 10 = 0

sum - K = 0 - (-10) = 10

ans = 0 ~~1~~ 3

Subarray sum equal to K

for (j=0 to n) if (sum - K → exists in map) ans += map.get(sum - K)

sum → map exists (freq + 1) $\hookrightarrow X$ (freq + 1)

ans = 3 map

| K (sum) | (freq) |
|---------|--------|
| 0 | 12 |
| 10 | 12 |
| 12 | 1 |

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