ntroduction to HashMap			on the books of
unday, 27 June 2021 2:48 PM	Main	\rightarrow add	get] - Inder,
data Structure—	function	-, remove	Jes J Zames,
		- get	value boois
(1) Arrays	of	- set	get - O(h)
2) May list	D-8-		0 ==
	au will	- 812e - clasplay	~ (9ndia - 150)
an an	· 11.1 -7 add	V -	~ (par 1 90)
(4) Queve J d	discipline add	usage of Ha	Sh Map. D (China - 186)
(5) L'intedust		Usage of Har (String) Keys-	(gritager) (Sind - 180)
(5) Trees S.	t ,	keys-	<u>valus</u> ~ (UK - 100)
B.S	T -	India	- 150 160 (9 ndia -> 160)
	<i>L</i>		7 40
_	lunear	China	130
find -1(10)	o(n)	yk ·	100
	inted - o(log h)		
9	V		

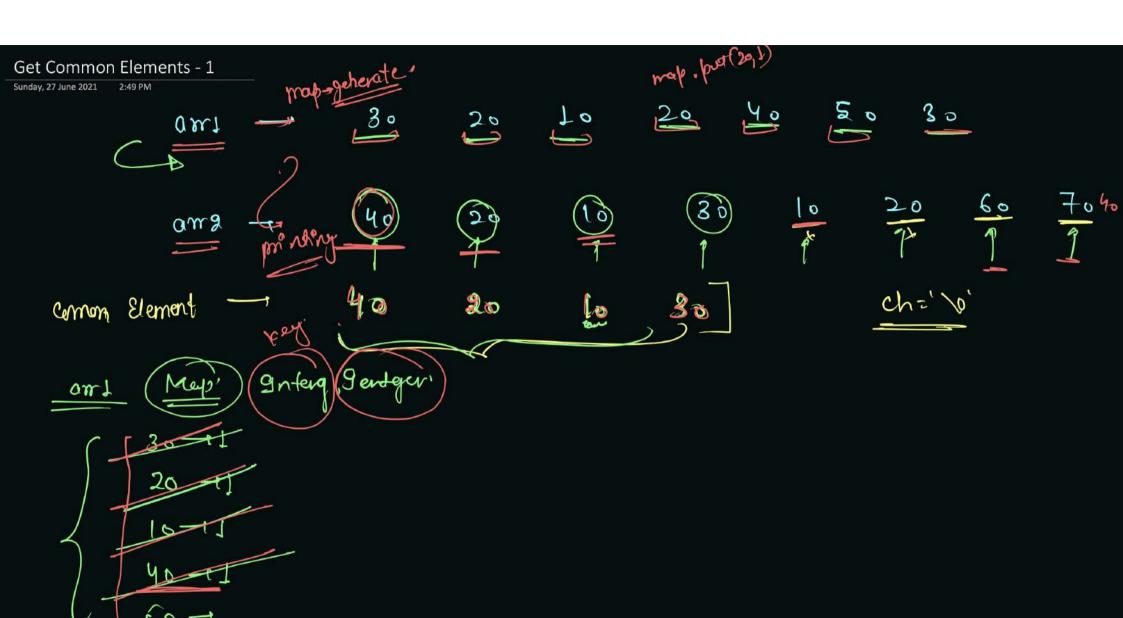
(Shing) (9 Ndeger) Hash Majo. -- Already present -- Update Value. Value lime. put (key, value) 'Irdia" _____ 150 160 - Absent -> Insertion of tay, value poir remove (key) Already present - Remove from Jeac' - Hashmap and rehm value; "China" containskey (key) present — True "Ugonda" — Fo Containskey (key) (presence of key inHoshMal) "Nigoda" — 30

Absord — False. "Note: keys are get (key)

get (key)

key is Absord — Irull refirm. in the Hossians 0(1) uniquely Stored in the Hosh Map Key Set () — Return all the keys in Set order of keys are random

Highest Frequency Character unday, 27 June 2021 2:49 PM	- Shing → a	abadba	detebd	h" of d'
	highest freq. ch	gracter??	www.m. m. min	in in the
Hash Malo < Chana	ver. Integer map.	o ·	array - m	
			26 -1 oney -	- majo fing
0 -> b -	X 2 X 2/3	Keyset ((a), b, c,d,	e, f, h)
c	x 2	frog ma	paget()	
d — e —	V 22 4 5 V 2	warenger,		
f -e		The state of the s		
4 -	1			



Get Common Elements - 2

Sunday, 27 June 2021

freq. maps 20 30 40 20 10 30 50 40 70 10



















9 nter Soctions

Integer, Integer

20 - 181 20 - 181

40-182L

10-18 280

50 78 0

10 30 10 20 50













Longest Consecutive Sequence Of Elements

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22 23 1 12 2 10 3 11 16 13 21 15 14 am-

Sequence, which is consecutive -s





14

15

longert consentire sequence - 16-11-12-13-14-18-16

22 23 1 12 2 10 3 11 16 13 21 15 14

Hash Map (Integer, Boolean), Key-True. Fill the Hash map with de vs. True, - (22) - Toure-False n 2 lauce dansing pt. I sequence an visible -> 23- 7 False. - 15 -et false. -1 L14 - & False. - Jame} - 12 - 7 False en (3) Starting from (terting - 12 - 7 Pelse point of seq. unil. - 10 - True? 4n consentue is prosent -> v3 -e 7 False Total. - 11 -17 Falses and manyimise the = 0(n) - VIG T False - 13-e7 False. 10 St = QX leng = 9/87 - 121 - True?

(22) - Towe-False Toure] - False. - True} - 2 - X Pelse - A JOHE True? elem = (10) count=XZ3 - VIG T Palse 123486 -e 13-ex False. - 6021 - Tomo? XXXXXXXX

```
// 3. find longest consecutive seq
int len = 10; 3
 int sp = 9,
 for(int ele : arr) {
     if(map.get(ele) == true) {
         int stp = ele; // stp -> starting point
         int count = 1;
         while(map.containsKey(ele + count) == true) {
             count++;
          f(count len) {
             sp_ele:
             len = count;
 // 4. print consecutive seq
 for(int i = 1; i \le len; i++) {
     System.out.println(sp);
     sp++;
```

