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WI 19 13 JM VQ - U111	440-		
-> (1) Jano Hash verp Q (10133 implements the Map introface		-)(1) Javin Hash Meys QU Class implements the Man interface
which allows us to star ten & value pair.			which allows us to star tey & value pair.
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to insert the duplicate key, it will replace	in c	1	to insert the duplicate key it will replace
the element of the coroces ponding key.	Pal D); (/-	the element of the correct pondia bell.
		V -	1110 40170
(3) contains value based on key.		3	conteins value based on key.
HASh MUD COLD FRIEND DALL MOIGHA. KOLLA.	The same of the sa		Hash men contains only unique keys. If may have one null key of multiple. No 1) Trailies.
the many have now kell mush s		(LY)	710011.00
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It is not synchronized. It I'does not maintain the insomin order The initial defaut capacity is 16/18 land Farm 0-75 (getting doubledward) Q. Working of Hashmap ? It internally uses the technique of hashing. * Hashisty: - It is the priess of convenigan object Into an integer value. The integer value help in intexing & faster seathing searches. Hashmap Conteins the array of nodes, & the node is represented as a class. FOR USCRE an storing key & value. The equals the Equals () MONE LYNN DERY. Equals (): - It cheeks the equality of two objects .-It compute the key , whether key is equal or not. It is method of object yess. est an be overviduen. * If you overside the equals () method, then it is mandatery to overside the hasheder Method. hash (ede () - & is object class method. It veturons the memory reference of object in integer form. The value of cereived from the method is used as the buylet number. The buylet number is the address of the element inside the map. Hashardel) to null key is 6

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Buckets: - Among of the node is called as buyers. Each holde how a duty structure life inknown
P map · put (key, value).
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index = hashlade (key) & (n-1).
2g. Index = 265932 8(16-1) = 4;
The value "4" is the index value, where the key so value will stone. In Mashmap.
5 value will store. In Maskmap.
Hash collision! - of morple object, of index
monple object, of mode
Keys, In this case, Equals () method where theet
both keys on equal or not. If keys or not card
both keys on equal or not, If keys on not early. Same, & replace with worest value, otherwise Connect this node object to the existing nude object through linked list. Hence both on at y
Connent twis node object to the existing nude
object through unked ust. Hence both an at 41
map. put (key):

Q. Difference blu HasbTable & HashMap. HashTable & Hashmap both are used to stone Losta in key & value form. Both are using hashing technique to stone unique keys HashMap. Hash Tuble It is non synchronized. Of it is synchronized. (object D It is not thround sale. D It is through safe. levely Hashmap allow one non key 3). Habhtable doesn't & multiple non values. allow null key or non values. (4) Th 13 Fe15+ M) It is sow, (3) we can make it syntronized) (S) It coin't be unsynamized New m = collections. synchronized Map (hash map) O voire key & dopliane Onique Key & material duplicate values allows. It is toolersed by Heroup (F) It is toolered by Enum rator & Intention. Q. Differ blw Linkedlist & Arony List Assoulist Until Ust It & Johnson you 1) It implements list. of is for Dynami. 19 St implementai Dynamic Amy If USED the Dynamic growy It isses the Double - linked implementaring. Juiny capari 10.8 (9U4) If you add Elmi Da inversibly 50%. of o you add/ Elemi in ow we don't need to shift 911 Eleuts. (Fast) (O(N) We have to shir all

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2 m (It is somet	@ It invocant by
E	It is not Legary coass. It is into word in JDK1.2	(3) Vector is legary class.
(4) (S)	H is felst H uses Herians	(3) It used Enumenting.
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平	Hash Set *	
	a both Politic	for storage. It inherit Set interfere
(L) (2) (3)	Hash Set Mashing Cor	lements by using a mechanism Herins unique element only. It varys permit one NOII elements.
	II -	

Hashbet Class is non-synchmolized. It & does not maintain insention order. Herop, the elements are inserted on the basis of their hashous. Thirty capacity is 16. L.F. - 0.75 to avoid duplicable is have to ordering overside equouse) method from object. the hashloded by A fire Treeset (Surting) (Coesn't allow not) · when you store "object" in Treeset it gives an exception. (Carment class. lang. comparate) . buz Toeeseti. Elents que sortud sunique. for that 1) Maturel otto ordering. java. long. Composable. @ java. ohi. Comparatur. (7) Jovense) int compareto (Object o) · (Highert bejought). 3 class - impleurs comparation. overriete) int compare (object of, object) (receintein Ascending orders) Main gebri set & Finer & des = set, describing Sets for Descuerer. Mant (des).

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* Con 4 mont Hash Map *

framework provides a thread-safe map. That is, multiple threads can access the map at more contribut affecting the contributions in a map.

By defaut capacity of map will be 16. provides method for bolk operations 11the Fro(-ach(); search() & reduce() 1. By defent, the Concurrent Mash map is Williard, 16 segments - This is the reason Why 16 threads are allowed to consumently modify the map at same time. number of threads an Howvery, any access the map at a time. It privides its own. Synchronization. bucket level Locking 30, Performan is Ogard. 16 - concurring level. (defent) I P To read openin through dent organish any love Y But uplate require vouc, union is segment

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