Grabage Callection:
Forms of Garbage Collection
Do Nothing Reference (counting)
Copying Generational Incremental
Reference Country: "Onus on client to call methods whom allocating free men
Most K and Sweep: -> most phase that identifies the about that are still in use -> sweep phase to semore unused Objects
-> Compact phase to compact the morney
opying: uses different (sports) to manage mamory
rangations: Maintain different generations for momory
-pronoted

21/07/2020.

Bajic Idac
-) It has a young generation and an 'old generation!
-) most initial objects allocated in 'Edon Space
-> Young generation has two survives spaces
Spale Spale
Harry one Survious spale in use out at time
Sobject Copied between Sovious Spale
-) old generation is whose long lived objects go to die
Land Comment
Edon So Si Tenured Personal
old
growtier Edon Soule
whon young generation is trul L) Gre owns objects are copied to newed' Survivors proce
Culon Young Generation 15 Voice IL) Gre 80115 Cost of Cost
minor will happen) objects from older survive spale all cape
to none & Survious Space
L) Subvious Spales the Scientifed
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Mayor Garriage Callection: -> Triggered whom the termined space is full
-) Calleds ald and young grownians
-) Called's ald and Young generations Ly Although this is really a full GX
Copying to old generation: Jun will eventually promote to old generation
I After a Centain number of gallage Callects
-) If Survivor Spale is feel
-) if Jun has been thold to always community
in ald spale

Allocaling	to old space - we can alkalt directly to old spale a option is required.	no Jun
	O 4	

Allocation: -) Thread Loral Allocation Buffers (TLABS) used

-) Each throad gets its own buffer in the Edon space

-) No Lacking sequired

Cood tuble: Each write to a seference to agoing object gees through a civile boxes in This bussies update a road table entry.

only entry new S12 bytes of momory.

i) Sovial operational Collector (We sovial Gx)

+Use Parallel (Grc) +0-

+ USE pasaller old Gic

-USE PAIS NEW GIC-+ USE CONCMOUSIS WEEP GIC

ii) + USC (onc Mook Sweep GC

+ USE PATUREUG C +WSE GILGIC

Sevial Collector, Single Thousand Sweep

-) Small applications surving on the client

Passallel Collection : Multiple throunds for minor Collection
-> Single thround for major Collection
-> Same procless as ferrial, use on servers

Passallel old Collectes: - multiple through for minor and major Collections preferred over parallellic

Concerne Mosk and Sweep:

only collecte old space

No long 1 bump the Pointes allocal in Course heap Fargmontation

Designed to be lower lateray.

Phase !.

-initial Mask

-) (oncurrent most

-) Rmook

> (on wovent Surep

> Regelting.

(n) (outerlast- Dew in Java 6 (officells suposted in Java 7)

3 Is a Comparting Clocks

=> Planned as a Depla Coment Fox CMS (Detault Sexues) Collection jover 1

-) Mount for Governos applications (multipocassons machines

with loog monoaes -> Breaks heap into degions (Still has Concept of Edon

Survivos and Tenuzagas)

Grostoge Collection Tools:

-> MX Beans (For Granshage Collector) -> Vame of Collectory Collections -) Time of Callections

-) Istor -) Command Line tool Provided with the JVM

Java References

Usage of Reference types: _ weak Reference (weak Hashmap) mela data with another type

-) SoftReference Can be used for (aching

-> & Prantom Reference -> Interaction with the garbage alecto.