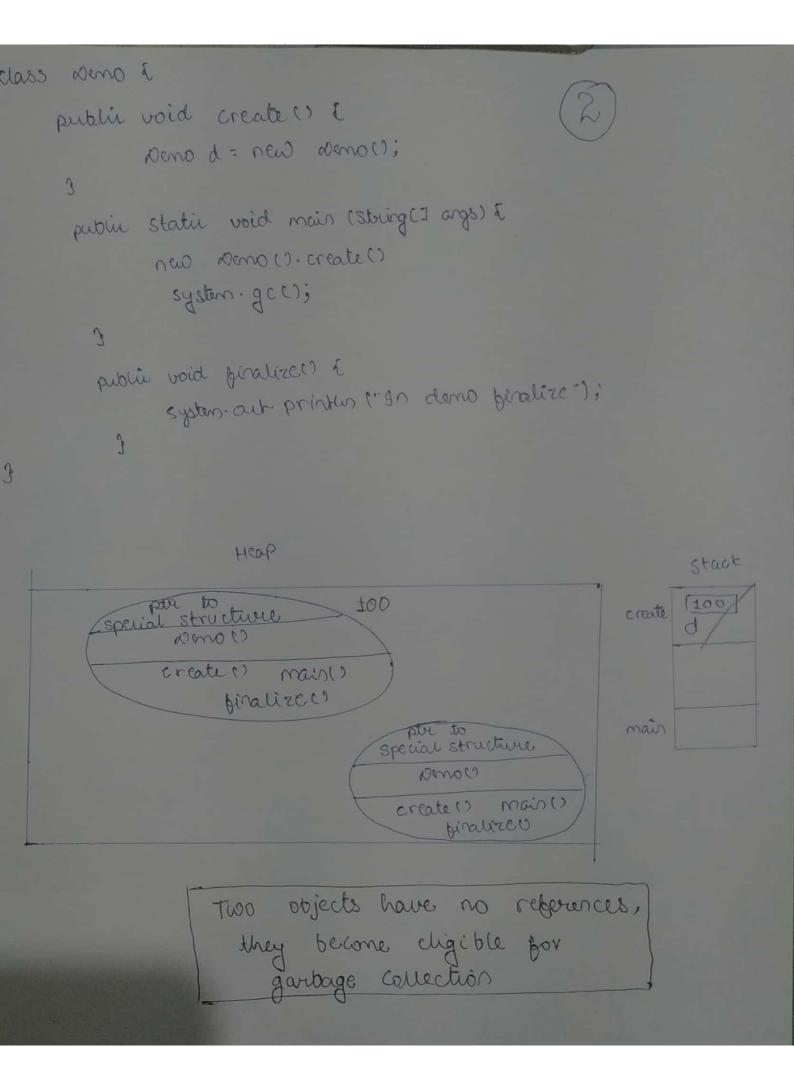
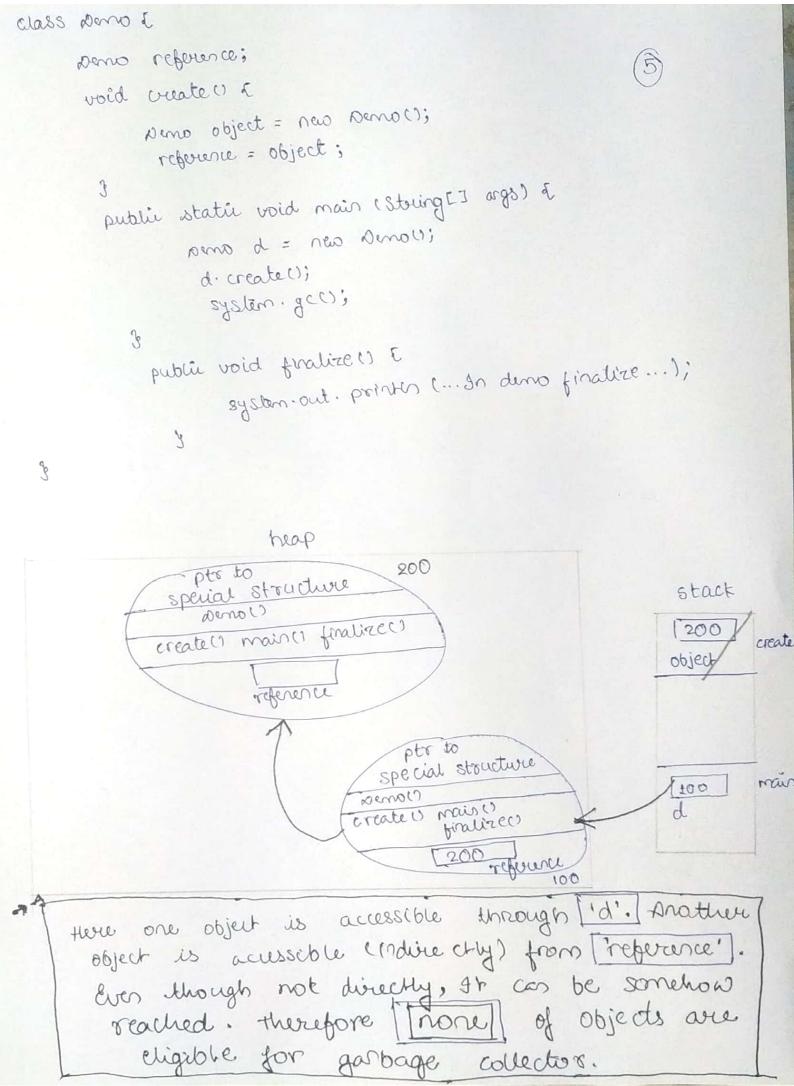
your age callection nates -> If any object becomes unreachable, ar cannot be accessed by any direct on indirect means. It becomes eligible for garbage collection. class semo & semo instance Reportance; public void finalize () { system.out-printful" on deno finalize"); Core 2 web & class public static void mais (string (3 args) & somo objects = new Demo (); somo object = new somo (); object 1. instart Reponence = object 2; object 2. instart Reference = object 1; object = mui object = mell; system. gc (); Enaccessible objects degible for garbage collection 1. stack -ptil to special structure object 2 2000 (2 ansch firalize() [100] jastance Reference ptr to special structure comoco object 1 piralize() 196 mill DADAGEDANIN instance Repurer ce 100

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class somo d Demo instance Repource; void create() & sono d = new somo (); instance Reperence = d; Rublic static void main (string (I orgs) [new smott. createlt; system. qc(); public void finalize () { system. out. preinthol" In demo finalize"); stack special structure 700 00t Comes create creater giralizes? mais ? instance Reperence mais por to special structure senol) create () mais () finalize() Reperance [100 Two isolated, objects eligible for garbage collection

class seno ¿ Demo createll & peno object = new peno (); return abject; public static void main (String [] args) { peno referre = new Democr. create (); system. gc (); 3 public void péralize () { system. out. prints ("In finalize"); 3. Stack pto to special structure create object Demol) 100 creately mais() finalize() repuence ptor to special structure (20moc) creaters mais () Anolize() one inaccessible object. one unecachable/inaccessible object eligible for garbage collection



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Easiest one.

Casiest way to make an object eligible for garbage collector.

class deno é

3.

public static void mais (string[] args) (

Demo d = new Demo (); d= null;

system.gc ();

public void finalize () &

system. out. printer ("demo binaltre");

special structure
special structure
special structure
special structure
special structure
denot?

null.
1200
d

one isolated object eligible for
apribage collection

import java util. *, class somo & public static void mais (String (3 orgs) & peno object = new peno(); HashMap map = now HashMapes; map. put lobject, "one"); system gce; public void finalize () & system. out- prints ("on finalize of Deno") Stack heap 1200 map ptr to special structurelle 100 Deno () object main () 100 finalize() "one" 100 value hashmap 200 If any key or value has only reference from Hash Map. Still that key or value doesn't become eligible for garbage collection Here key has two references & thurs no object às eligible for garbage collection.

impart java. ulil. *;

class Deno [

8

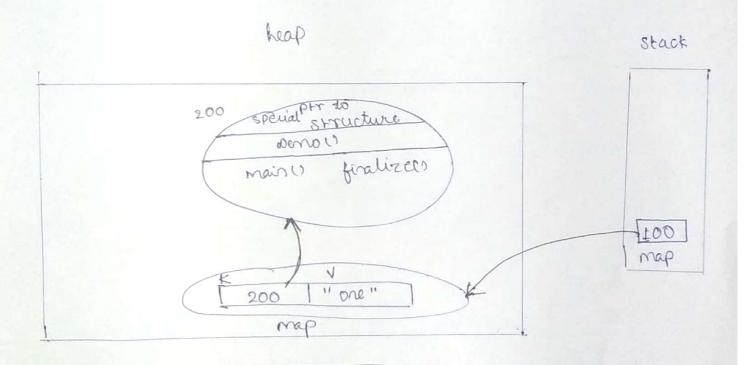
public static voich main (String [] args) &

HashHap map = new HashHap ();

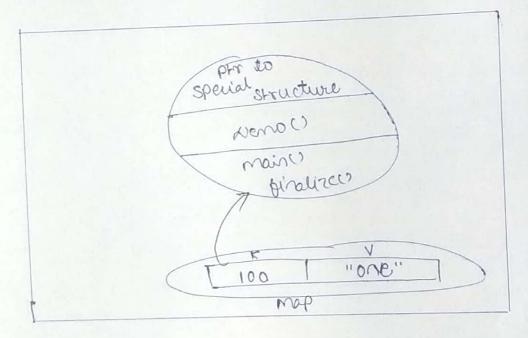
map. put (new Demo (), "one");

system. gc ();

public void fénalize () & system. out. printin ("In finalize");



If any tey or value has only reference apape from Hashhap. That reference is considered to strong reference a that key or value is not eliquible for garbage collector. Thus no object is eliquible for garbage collector import java-util. *; class somo E public static void mais (String [] args) { new HashMaph-put (new Remot), "one"); system. gers; public void finalize () { system. out. prints (" In finalize");



Any lay or value referenced from Hashmap is not in scope of garbage collection. But here

stack

impart java util. *; (30) class Demo E public static void mais (stringer args) à seno object = new senoc); weak Hash Hap weak map = new weak Hash Hap (); wealmap. put cobject, "one"); system gcl); public void finalize (1 & system. out. printer ("on finalize"); heap stack 200 ptr to special structures object Demo () 200 piralize() mains walmap weakmap 100 [200 "one" Here to object is un reachable, no object is eligible for garbage collection.

```
inposet java. util. *;

class Deno {

public static void main (string (I args) { (1)

public static void main (string (I args) { (1)

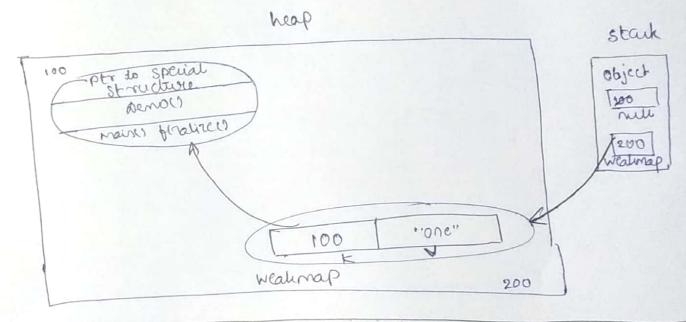
public static void main (string (I args) { (1)

public void problem ("problem (I finalize");

system. gc();

system.out. prointln ("finalize");

system.out. prointln ("finalize");
```



* Here you will think, Deno object is reachable from weak Hash Map, But rule Says:

Whenever any object acting as key or value of weak Hash Map has only one repense. And hear t repense is from weak Mash Map itself.

Thus that object is eligible for garbage collection.

import java. util. 4; 12 class pono (public statů void mais (string [] args) E seno object = new seno(); Weat Hash Map weak map = new weat Hash Map (); weak map. put (object, "one"); object = mui; weakmap = null; System-gc(); public void finalize (1 [system. out. PEINTU ("FINALIZE"); 3 3 5tack pr to special structure object Demo() 1900 ul biralized mains Mahmap 2001. "one" 100 200 wealings heap ture two objects are becoming inaccessible thus they are eligible for garbage collection -1) seno object 2) Weat Hash Map object

class Demo & demo instance; perno createl) & Deno d = new Deno(); instance = d; return di public static void mais estellig [] orgs) { Deno object = new Denoss. create (); system. gc (); public void finalize () { system out printer ("on finalize of somo"); output - In finalize of Demo 3 too pro to special stack structure Carrely mains finalizers creaters? [00t] e.rea instance T 100 mais object ot reta special structure (somea mais (reate() 100 instance This object has become unreachable and eligible for garbage allection. Because in points at an object. Nothing points at int.

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