what in Array : - . It is a Data structure recollection of similian kends of elements

· Asways are stoned in Continous menosey

· ex: Dan naeveay coursels of untiges type of value no clear cour be un cleared un it. Dan man type away can aboutly contain char type values un an averay.

* why Array is stored at cuts memory to calten. et is said to be stored at continuers memory location size of an array will be $5 \times 4 = 20$ bytes means array datatype of

but it caes't be stoned un the forum of discrete ise.

3 untegers value at different escation & & integere value

at different location.

20 bytes continue memory location.

* me said away in a D.s comick of similar knich of elements

1,2,3,4 -- -- (caube Honed) be wed a subvati To averay which can storce ventegen

why Array is Needed? are need away to aword multiple declaration of variable unile taking large amount of rinputs. if you want to create & variables It is possible to create winta; he proves no se many latticis wi mant to weate on mant 100's of niques it become heetie to weate multiple variables. So here arraye peage an unsportant noie. [300] Value enside it will souate doctatype away I syntax 300 unteger type values on continue memory toy 1200 by tee 1200 bytes cuts menioney second allocation of Comidency 1933 d 194 process species to the of Now show was int any [10] means cuts memory enaling cuts memony 16 bytes evel memony ton untegen type accar having 10 4 1e

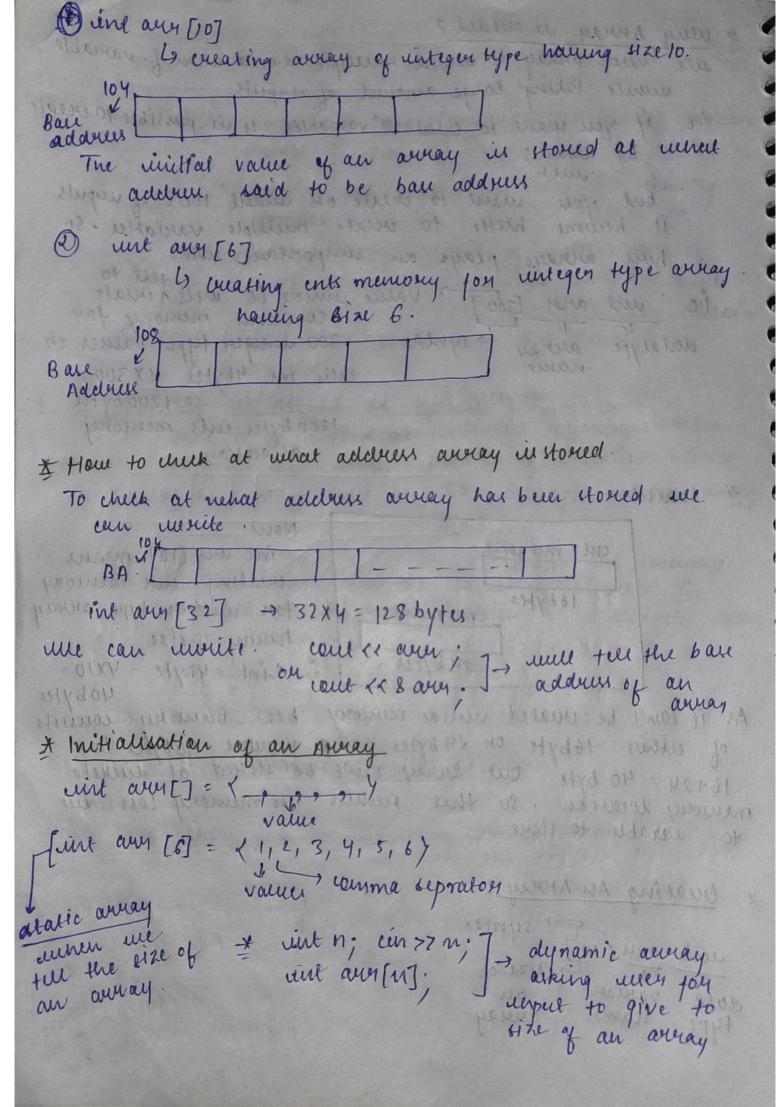
me and met there zu byter

.. I mt = 4byte = 4x10 =

40 byta As it can't be wated iimide memory bet memory coming of eitens 16 byte on 29 bytes me require 40 bytes but 16+24 = 40 byte but array count be stored at discrete menory location. So this smalls in memory loss due to unable to Home.

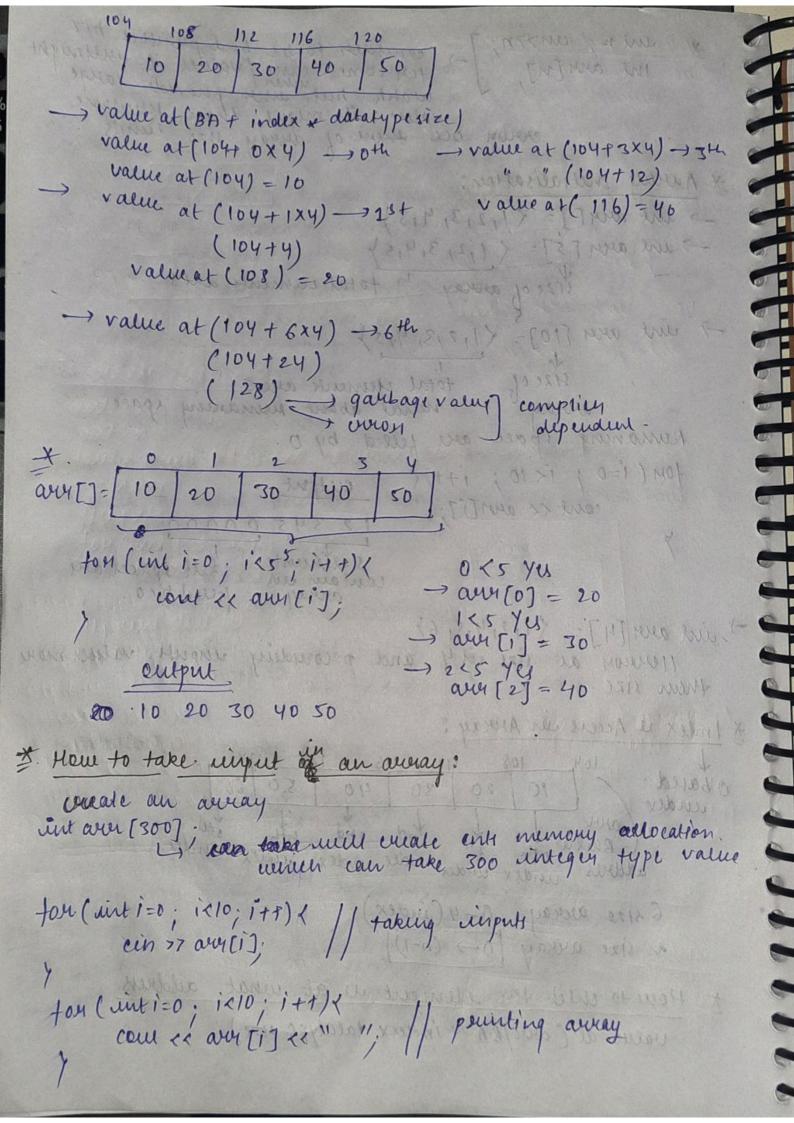
* Quating An Array: syntax unt own (10)

Es line of data variable acuay. name

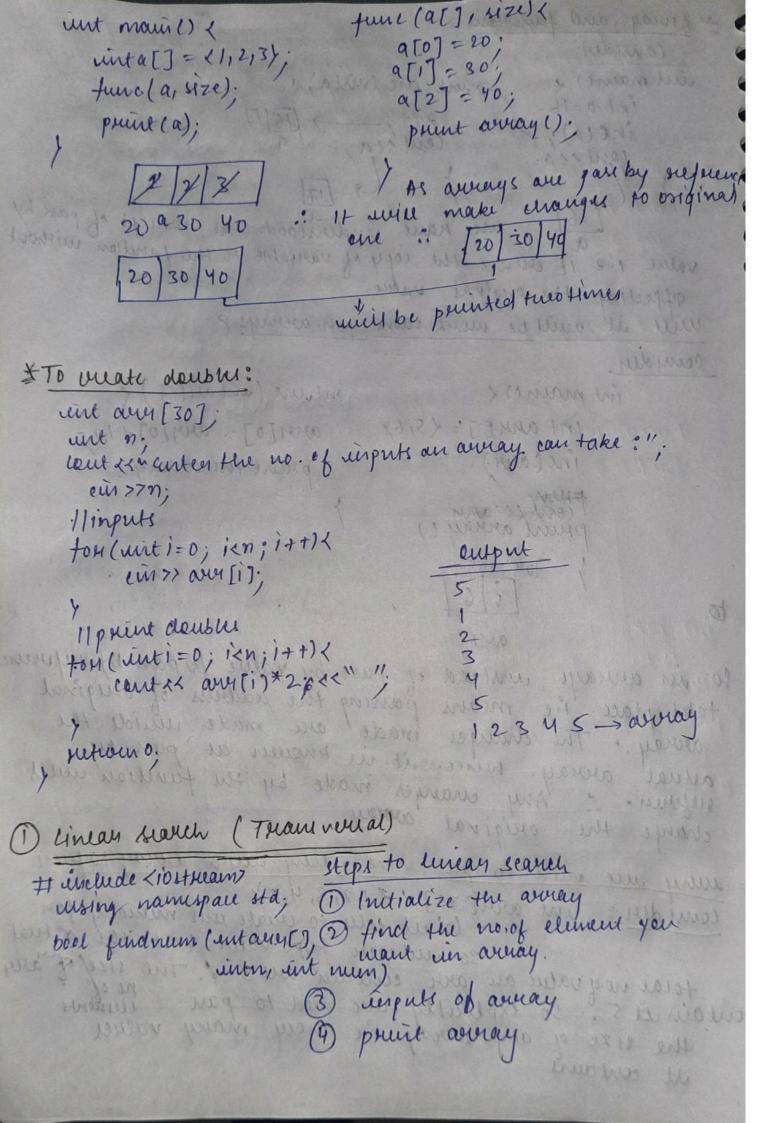


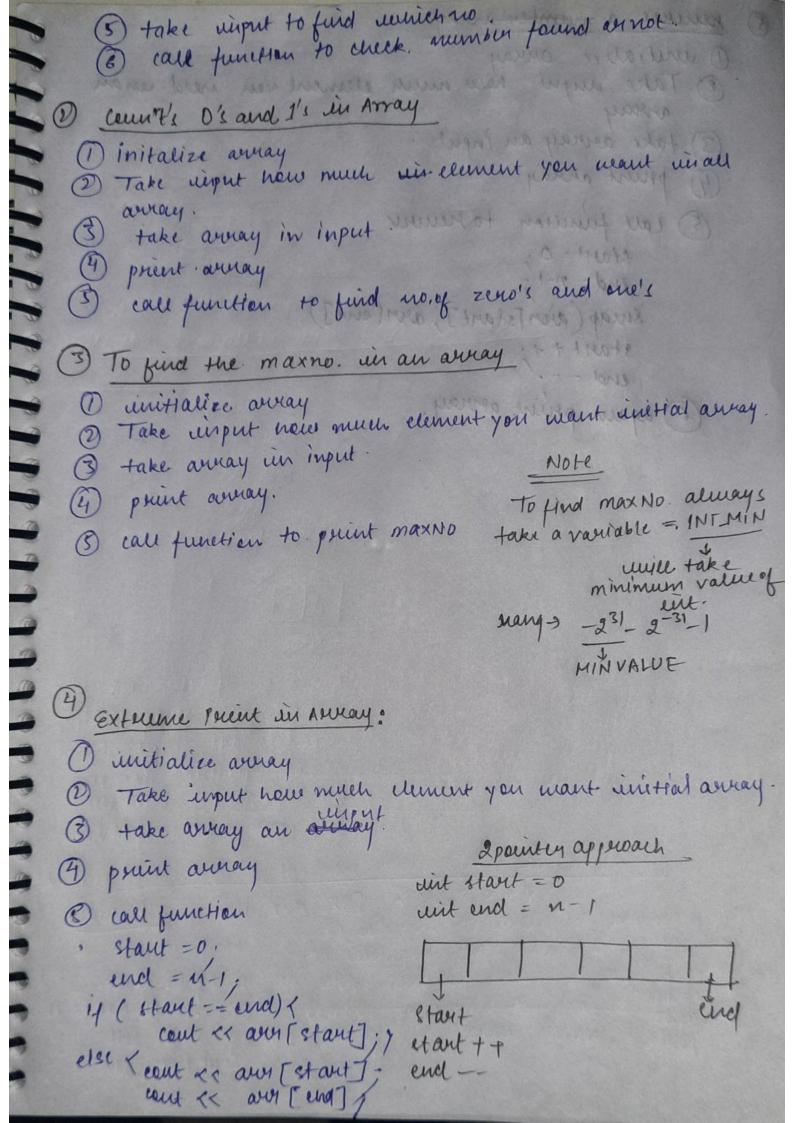
consider to be bad practice bez for some cases / values it will might work but in provide large suln; un77n; int aus [11]; value it might show turntine ber there of duray size limits everon * Away Initialisation: -> unt aur[] = <1,2,3,4,5} - une aux [5] = < 1,2,3,4,5} 1120 of away 4 total elements are 3 -> unt over [10]-. <1,2,3,4,5} stre of total elemente aves away menat about nemaning space Remaning space are felled by O. for (1=0; i<10; i+t) (cutput or) coul ex aur [i]; 1234500000 selferents hert spacer aur
contain eur frued by o. " unt aus [4] = {1,2,4,5,6} Hereion as size is 4 and peroruding respects, values more them size of the property * Index se Access un Away: obated 10 20 30 40 5.0 60 winder 6 size veray 0-4 (index) an size aveay (0-) (n-1) * How to which the element is at what address

value at (aver/B.A + index x datalype etze)



* Armays and functions Consider - int une (virta) ? unt main () x centera; a inta=16 intla); conteca; the comept of pass by ule have understood value i.e it wate the copy of variable to the function without reflecting the original value. min it mill be mark same for averays? intime (intan()) comider. int main () { aver[0] = avr[0]+10; INF aLME] = < 5,6) pount the averay: inclary) phin contract orang muit avery () (WW. 1-D, 12 mg 12) 104 108 THE PART (1) ta so in arrays united of part by value pars by supreme take place i.e means passing the addulus of oxiginal averay. The changes made are made unide the artual away. wince it in known on pars by sufurus. .: Any changes made by the function will the original avally * muy me ned to pass size along with away to fune couri der: vint aver [30] = < 1,2,3,4,5} Is it tells to wate ents memory for 30 mit egen type vanne but the actual total no of value an are contain are 5. The size of are contain is: so explicitly we need to pass the size of and average sie now many values ult contains





renewe a member away O unitialize away Take night here much element you weed in an array. 3) take averay an input. W 333 7.1.5 (4) pount array) call function to neuver start=0; smap (ann Istant I, ann (end I) end = n-1; start ++; many we are arranged the again prient avvery. call function to exceed marine ENTERNA PERENT AN ARREST C rose front have