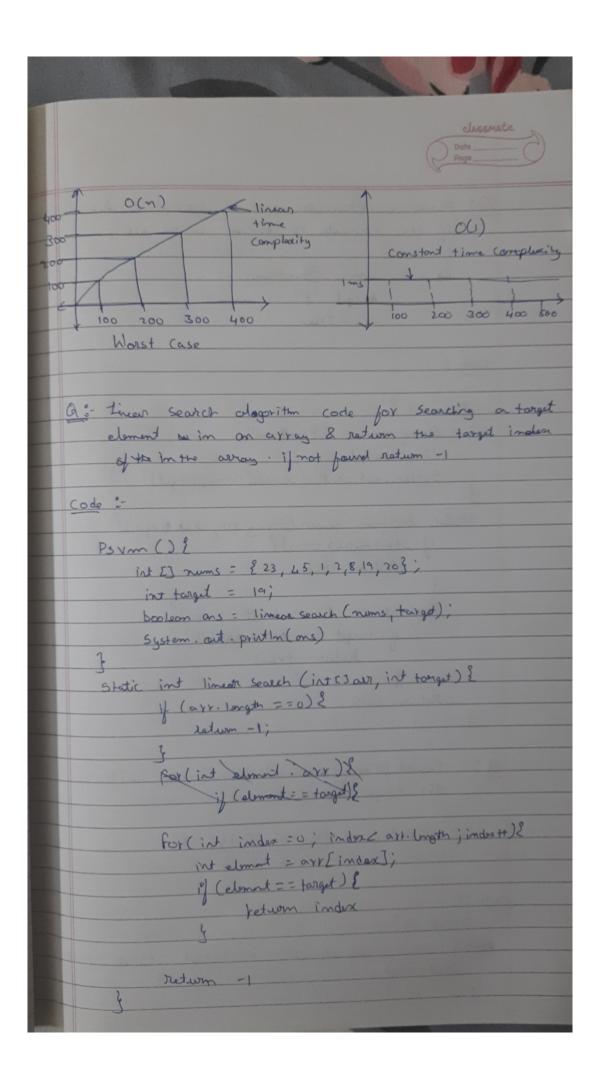
Linear Search in Java Searching of It is a process of finding a given Value

position in a list of Values Linear / Sequentical Search & . It is basic & simple search algorithm . In Sequential search, we compare the target Value with all the other elements given in the list Eg a arr = [18, 12, 19, 77, 29, 50] (un sorted array) target = 77 In above example, the target Yalve is Compared with all the elements in array in sequential/ linear way Time Complexity 6--> Best case: O(1) -> Constant => Hass many checks will the loop make in best case i.e the element will be found at 6th index i.e, only one comparison will be for best case -> Worst case: O(h) => World Caso, here it will go through every element and then it says element not found Size of the array no. of composisions time 100ms 200 200 mg



	classmate
	Date Page
	Q: Search a character in a string & Return true
70-	if the Character is present in the 6thing
~	
	Eg & nome = Drectham
	target = 'p'
	ons = True
	Code %-
	- Cole o
	Psym () }
	String name = "Prectham";
	Char target = 'p';
-~	5 ystem. out. println (Search (name, target))
-~	
-2	Static booken search (String Str, Chart target) ?
	1/(Str.langth() ==0)?
	neturn false
	Government
-~_	For (int i=0; 1 < stv. longth(); i++)}
-~-	if (target = str. charat(i)) { Seeturn true;
	return true;
	Meturn false;
	3
	Q: Search for an admost (3) in array within
	the range Specified [1,4]
-100	Ey & arr = [18 /12, -7, 3, 14] 20]
-/	0 1 2 3 4 5
~	
The	Code :-
	PSVm () {
-	boolons: linear Search rage (arr, int to orget, int start, intend)
	Sout (ons)
1	
3	

ring Static boolean linear scratherings (interry, int target; int start, int and ? for (int index = Start; index <= and; index ++) & if (element == arr [index]) } return true redur false Q: Find min element in the array arr: [18, 12, -7, 3, 14, 28] ons = -7 3(t Code : WEJ arr= 2 18, 12, -7, 3, 14,28] Sout (min(arr)) Static int min (int[] arr) { int ons = arr Ed; for (int i=0; icayr.langth; i+1) { if (arraid Lons) { ans: orrEil; within return ans Q's Search for on element in 2D Array Eg :-[[1,2,3] target = 14 [9,18,5] t start intend LEG, 2, 14J

```
Code :-
   Psvm () S
       int [] [] arr = [
                 81,2,3%
                 ¿9,18,3J;
                    86,7,143
       int target: 14
        Sout ( Search (arr, target))
   Static boolean Search (IntEDED GIV, inttaget) &
        for (int row = 0; your ary length; rowth) }
             For (int col =0 ) colcary Erow longth 9; col+
                if (arr [row] [col] = = target) &
                  return true
        natur false
Q° - yiven array of nums of integers, return how more
of thom contains an even number of digits
   Eg 0 nums = [12,345,2,6,7896]
    0/p ons: 2
Code :-
      PSVm () }
         int [] nume = { 12, 345, 2, 6, 7896};
Sout (Find numbers (nums));
      Static int findnumbers (into rums) ?
```

dissente for (int num; nums) { y (even (num) 2 count ++ return count Static booleon even (int num) & int number of Plaits = digits (num) return number of Digits 90 2 == 0 Static int digits (int num) & num: num /10; netum court;

PDF Created Using



Easily Scan documents & Generate PDF



https://play.google.com/store/apps/details?id=photo.pdf.maker