

LABORATORY WORK BOOK

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	Exercise	EXERCISE NAME	Aim/ Preparation	Algoritos / Proestus . Festymente in the Lab	Calculations	Program Execution Results and Error	na-	Total
140.	Number	g Said Hall Hall	4	4	and Graphs	kalyos 4	4	20
1	3-1	Bubble Sood	Ĺ		Maria e			the contract
2	3-2	Solication Sout	1 1	Thisp is a sold !				n A
3	3-3	Insultion Sout		FEAR CT.	*			
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N. Pavi Chardeika Signature of the Student

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Aim: Bubble soud is a simplest southing algorithm that works
3.1
     by repeately swapping the adjacent elements if they are in
    wrong order. This algorithm is not suitable for large data sets.
    code:
     : *. litu. evel toogmi
     public class Mains
           Static void bubblesout (Int Clarr) {
              tor (int 1=0; 12am. Lungth -1; 9++){
                 for (int j=0, jcarr. Lingth - 1-13]++){
                    (+(arr[j]>arr[j+1]) }
                       Port temp= arres);
                       ari(j) = ari(j+1);
                       driff+1) = temp;
               z
            3
        Static void printainay (inti) arr) {
          for (int i=0; TLatt. length; i++) &
              system. out-pount (arreis);
              it (icarr. length - 1) &
                  System-out. print (", ");
        4
     public static void main (Etring args()) ?
         scanner sc=new Scanner (system. rn);
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int no sconentantes;
      string m= sc-next line();
      Shing () input = sc-nextline(). split(" ");
     int[] air . rewint[n];
     for (int T=0; Tzn; T++) §
        311[7] = Integer-parseint (Topul(T)):
     -
                      ACHION SERVICE SERVICE
    bubblesact(arr);
    Printallay (an);
               - - Parliante Ten all marines
૧ું.
                              · [ = 四部区间的地方
Input:
         6 3 05
                          Eliter of the following is
Output: 0,3,5,6.
                         · Eliber : Lauren of Marie
Aim: Sucction sait in an simple and efficient sorting aboutinn
that works by repeately scheeting the smallest element from the
unsouted position of the 18st and moving it to the Sated portion
of the list.
                                       基位2 17 17
                         IC. · Spieged green worthing
code:
impost java util Scanner; it is mailing the second
public clas Main &
   public states void main (string aigs[])$
         Scanner scanner = new Scanner Csystem. In);
        int size = scanner-neutant():
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ROLL NUMBER: shing final = scanner next Lerx (); acanoci nerdline() 5 Suring() inpution a input-split(" "); int () on = new int (8121); later of records (714) for (PM TOO; 165720; 941) { an(i) = Integer-parsePnt (Input Arr(I)); for (Tod T=0; 125) 72 -1; T++) 9 I considerate the state of the for minIndem = 1; for (int j=1+1; 1 2 size; 9+1) & illing the training if (arr[j] 2 arr[min Inden]) { men Index = 3; Lugge 2 Q 3 int temp = all[minInden]; the distance of the day all [minInder] = all [i); ANTO SIEMP; - Mynis of the leve contraine round supposed for groups to suppose and provident of publishing put the suppose was exercised the significant to the suppose with the suppose was exercised the suppose with the suppose was exercised the suppose with for (Thit = 0; TCSTZE; P++) & System.out. porot(","); · Hill with A System-out-print (ancis); , inness. it is the series Bell Istore Courses with a contract of the survey POTEN MOTO PLANT

Input: 4
6 3 05

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Output: 0,3,5,6.
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APM: Insertion Sout
Emport java. utilo Scanner;
                          r sain a state design grate a capable
public class Mains
   public static void main (string argy[]) &
      Scanner scanner = new Scanner (System an);
      Pot size = scanner. nent-Int();
      scannes-neathineco:
     String Enput = scanner neutlines;
     String ) Popular = Popul-Sprit(" ");
                                                    - Longian
     int() ar = new int[size];
     for (Pot 7=0 ; PLSTRe; 9+4) &
         arr[i] = Integer-ParseInt (Poput Arr[i]);
     for (int = 1; 12512e; 1++) {
         Port Key = all[i];
          int j= i=1;
          while (j>=0 && an(j) > key) &
             arr[j+1] = arr[j];
              5=5-13
         an[j+1] = key;
    for ( mt 7=0; TL Size; T++) {
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ROLL NUMBER:

system-out-print(","); 11(11=0) { A THE WATER OF THE STREET System-out. prent (air (i)); . Compressing the second control of the second seco

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Output: 0, 3, 5, 6.

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