Name: Ital Jakan ID: IT-22014

Write a problem to find the 1th an Annaylint

impont Java util +;

clann Kth Smallent Sound

public static int find the smallent (Lind LIndegen > Lind oint to

collection Sont (Lind);

ne-tunn lintige-1 (k-1); public static void main / String [] angs) {

Lint & Integer > numbern = Annay and 17,10,4,3,20)

int k=3;

int nepult = find kth smallent (numbern, k);

Syntem out print In (" The " + k+" " Tid

```
(2) eneate a Treemap to retone the mappings
wonder to their frequencier in a given text.
 impont Java. ufil. +;
 public clann Word Frequency Map {
public static void main (5-Ining angn []) {
 String text = " Hello work Hello java".
 String lead wordn = text split ("");
 TreeHap 15thing, Integen, frequency Map = New TreeHap
        (String word; worden)
 frequencymap. put wond, frequencymap. geton Defaut
   Syntem out printin ("Word Frequencien:").
  for (Map Entry 2 String, Integer) entry: frequery
      map. entryset ()
```

```
public clans overestacked {

Public Static void main (String [] angs) {
priority overe 2 Integer > queve - new priority overe (),
        queve add (3).
         queve. add (1);
         queve. add(2);
Syntem. out. println (Overe (ancending orden):");
     While (1 greve in empty 0))
 Syntem. out. print ( queve. poll 0 +");
               Priority Overe (Integer) Stack = new Priority overe
                                      [collection nevenne Ondent);
        Stack add (1),
         Stack add (2);
      Syntem.out. printle (" In stack (decending onden)."
          while (!Stack impty ()) ?
       Syntem. out printle [ Stack. poll +" ");
```

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4. Tree Map to stone student's IDs and their dolls import vava ubilix; 11 create a student class to hold student details class student ? String name: intage; Student (String name, int age) { this name this, age Public String tostning () return name + " ("+age+"): Public class student Mup? Public static void main (string [] anys) Thee Map < Integer, student > students = new Thee May () (); Students. put (101. new student ("Adam", 20); Student. put (102. new student ("Anin", 21);

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Il Print each student ID and details

for (Map. Entry < Integer, student > entry.

students. entry Set ())?

System. out. println ("ID:" + entry. get key () +",

Details: " + entry. get value ();

5. check if two linkedlists are equal. import. Java. util. *; Public clan Linked List Equal? Public Static Void main (string [] angs) 11 create two linked lists with-the same volves Linkedlist /Integen list = newlinkedlist <> (Annays. as list (1,2,3)): Linkedlist < Integer) list 2 z new linkedlist <> (Annoyo, arlist (1,23)); Il use equal method to compane boolean is Equal = list. equal o (list 2). System. out. println (" Ane the cost negual 2" + 15 Equal);

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6. Hash Map foremployee 10 to department import vava. utill. *; public clan Employée Dept 1
public static void main (String args []) 1
11 create a hash Mup to stone employee 10 & Dupt -Hash Map < Integer - String x emp Dept = new-Hash Maps emplopt. put (1001, "HR"); emplept. put (1006' " CSÉ"); emplept. put (1005 - "Accounting"); for (Map. Entry Lintegen, String) entry: emplopt. 11 Print entry set ()) { System. out. printin (" Employee ID: "+ entry () + ", Department: " + entry () +");) \ \ \