

```
1
2 //NOTE TO STUDENT
3 //-----
4 //Please do not alter method names or name of class
5
6
7 //addition imports can be added if needed
8 import java.io.*;
9
10 public class Database
11 {
12     String[][][] contact;
13     int position = 0;
14
15     public Database(int noOfContact)
16     {
17         contact = new String[noOfContact][noOfContact][noOfContact];
18     }
19
20     public void setDetails(String name, String tel, String exten)
21     {
22         //set the details of the contact
23         //increment position by one
24     }
25
26     public void setName( String name, int pos)
27     {
28         //set the name or update the name of the contact
29         //with given position in array
30     }
31
32     public void setTelepehone(String tel, int pos)
33     {
34         //set or update telephone of a contact
35         //with a given psoition in array.
36     }
37
38     public void setExtension(String exten, int pos)
39     {
40         //set or update extension of contact
41         //with given positon in the array.
42     }
43
44     public String getFullName(int pos)
45     {
46         //returns full name of the contact
47         //with given position
48
49         return "";
50     }
51     public String getTelephone(int pos)
52     {
53         //returns telephone of the contact
54         //with given position
55
56         return "";
57     }
58
59     public String getExtenstion(int pos)
60     {
61         //return extension of contact
62         //with given position
63         return "";
64     }
65
66     public String[] getDetails(int pos)
67     {
68         String[] info = new String[3];
69         //return the contact details as array
70         //given the position of the contact
71
```

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72         return info;
73     }
74
75     public int getPos(String name)
76     {
77         //returns the position of this contact with given
78         //name
79         return 0;
80     }
81
82     public String[][][] getAllContacts()
83     {
84         return contact;
85     }
86     public int getPos(int tel)
87     {
88         //get the position of contact with a given telephone number
89         //remember to convert the int to string
90         //then query the arrays
91         return 0;
92     }
93
94     public boolean save(String file)
95     {
96         boolean b = false;
97         //Save the 3d array into a flat file
98         //with given file name
99         //if the file already exists then append to the file
100        //or create a new file
101
102        return b;
103    }
104
105    public boolean load(String file)
106    {
107        boolean b = false;
108        //load each contact and save into
109        //3d array with given file name to load from
110        //providing feedback to illustrate that the file has been loaded
111        successfully
112        return b;
113    }
114
115 }
116
```