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/**
* Solomiya Pobutska
* CISC 3130
* Assignment #5
**/
import java.io.*;
public class FamilyTree {
    public static void main(String [] args) throws IOExceptio {
        BufferedReader br = new
BufferedReader(new.InputStreamReader(System.in));
        System.out.println("Family tree in sequential order");
        String[] fam_tree = new String[50];
        String[] father = new String[50];
        int[] noc = new int[50];
        int c=0, i=0;
        while(c >= 0)
        {
            System.out.println("Member name and number of children");
            fam_tree[i] = br.readLine();
            noc[i] = Integer.parseInt(br.readLine());
            c=c+noc[i];
            c=c-1;
            i=i+1;
        }
        int count = 0, j=0;
        while((count<50)&&(fam_tree[j]!=null))</pre>
        {
            for(int k=0; k<noc[j];++k)</pre>
            {
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father[count+k+1] = fam_tree[j];
            }
            count = count+noc[j];
            j=j+1;
        }
        System.out.println();
        System.out.println("Family tree: ");
        for(j=0;j<50 && (fam_tree[j]!=null);++j)</pre>
        {
            System.out.print(fam_tree[j]+"\t");
            System.out.print(noc[j]+"\t");
            System.out.print(father[j]);
            System.out.println();
        }
        System.out.println("Please, enter the person's name you want
to know about ");
        String p = br.readLine();
        c=0;
        int fi=0;
        for(i=0;i<50;++i)
        {
            if(fam_tree[i] == p)
            {
                C++;
                break;
            }
        }
        if (c==0)
            System.out.println("That person is not on the list");
        else
        {
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System.out.println("Person's name : \t"+fam_tree[i]);
            if (father[i]!=null)
                System.out.println("Father of "+p+" is :
\t"+father[i]);
                for(fi=0;fi<50;++fi)
                {
                     if(fam_tree[fi] == father[i])
                     {
                         break;
                     }
                }
            }
            else
                System.out.println("Father of "+p+" is :\tData
Unavailable");
            System.out.print("Sons of "+p+" are :\t");
            for(int k=0;k<noc[i];++k)</pre>
            {
                System.out.print(fam_tree[k+i+1]+" ");
            }
            System.out.println();
            if (father[i]!=null)
            {
                System.out.print("Brothers of "+p+" are :\t");
                for(int k=0;k<noc[fi];++k)</pre>
                {
                     if (fam_tree[k+fi+1]==p)
                         continue;
                     else
                         System.out.print(fam_tree[k+fi+1]+" ");
                }
```

```
System.out.println();
}
else
System.out.println("Brothers of "+p+" are :\tData
Unavailable");
}
}
```