import java.io.\*;

public class Problem2

{

public static void main(String[] args) throws IOException

{

FileReader file = new FileReader("DATA22.txt");

BufferedReader read = new BufferedReader(file);

for (int l = 0; l < 10; l++)

{

String line = read.readLine();

int r = Integer.parseInt(line);

String index[] = new String[r];

int min[] = new int[r];

for (int j = 0; j < r; j++)

{

line = read.readLine();

String array1[] = line.split(" ");

index[j] =array1[0];

int size = Integer.parseInt(array1[1]);

int diameter[] = new int[size];

for(int i=0;i<size;i++)

{

diameter[i] = Integer.parseInt(array1[i+2]);

}

for(int i=diameter.length;i>=2;i--)

{

for(int s=0;s+1<i;s++)

{

if(diameter[s]>diameter[s+1])

{

diameter = swap(s,s+1,diameter);

}

}

}

min[j] = diameter[0];

}

int smallest = min[0];

for(int k=0;k<r;k++)

{

if(smallest>min[k])

{

smallest = min[k];

}

}

System.out.print(smallest + " {");

int counter = 0;

for(int w=0;w<min.length;w++)

{

if(min[w] == smallest)

{

if (counter != 0)

System.out.print("," + index[w]);

else

{

System.out.print(index[w]);

counter = 1;

}

}

}

System.out.print("}\n");

}

read.close();

} //end main

public static int[] swap(int j, int k, int[] array)

{

int temp = array[j];

array[j] = array[k];

array[k] = temp;

return array;

}

} //end class