public class Solution {

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

Solution solution = new Solution();

ArrayList<Integer> one = new ArrayList<>();

one.add(1);

one.add(111);

one.add(1111);

ArrayList<Integer> two = new ArrayList<>();

two.add(2);

two.add(222);

two.add(2222);

ArrayList<Integer> three = new ArrayList<>();

three.add(3);

three.add(333);

three.add(3333);

ArrayList<Integer> four = new ArrayList<>();

four.add(4);

four.add(444);

four.add(4444);

ArrayList<Integer> five = new ArrayList<>();

five.add(5);

five.add(555);

five.add(5555);

ArrayList<ArrayList<Integer>> list = new ArrayList<>();

list.add(one);

list.add(two);

list.add(three);

list.add(four);

list.add(five);

solution.printList(list, 0, 0);

}

public <list> void printList(ArrayList<ArrayList<Integer>> list, int index, int value) {

if (index <= list.size() - 1) {

if (value <= list.get(index).size() - 1) {

System.out.println(list.get(index).get(value));

index++;

printList(list, index, value);

}

} else {

printList(list, 0, value + 1);

}

}

}