


<b>Assignment Case</b>	
COMP6047 Algorithm and Programming	
<b>Computer Science</b>	<b>&lt;Case Code&gt;</b>
<i>Valid on Compact Semester Year 2018/2019</i>	<b>Revision 00</b>

**Soal***Case***Number Grouper**

Jojo finally achieve new skill from his recently programming class, which is sorting. He wants to furthermore learn about sorting. He got the idea of selective grouping. He wanted group number based on even odd, while also sort them out in ascending order. But unfortunately, he has poor memory. Hence, you as the programmer are ask to build a program based on that problem.

**Format Input**

The first line consist of a single integer  $N$ .  $N$  indicates the number of test cases.

For each test case, there will be two lines of input.

The first line consists of an integer  $K$ , indicates the number of integer.

The second line consists of  $K$  integers  $A_i$ , indicating a number that was generated randomly.

**Format Output**

For each test case, output the first line answer with format "Case #T :", where  $T$  is the number of test cases. On the second line, output all of the sorted odd number. And on the third line, output all of the sorted even number

**Constraints**

$$1 \leq N \leq 100$$

$$1 \leq K \leq 1000$$

$$1 \leq A \leq 10000$$

Sample Input	Sample Output
2 5 1 2 3 4 5 4 2 2 2 2	Case #1 : 1 3 5 2 4 Case #2 :  2 2 2 2

Explanation :

Test Case 2

Since there are 3 even number and 0 odd number, the only output on odd group was a newline