Introduction

Five school children are weighed in pairs on a scale. The five children can be paired in ten different weighs, er, ways. Given the ten paired weights, determine the weights of the individual children.

You may assume all the weights are integers.

HINT: Each child is weighed four times.

Input

Each line of input consists of ten integers. The input ends with ten zeros.

```
114 129 118 125 123 122 121 124 120 116
109 118 114 116 125 107 111 112 121 123
121 114 100 110 100 121 114 111 104 125
0 0 0 0 0 0 0 0 0 0
```

Output

The program must print the weight of each child in ascending order on a single line. Each child's weight must be an integer value.

```
56 58 60 64 65
52 55 57 59 66
45 55 55 59 66
```