2025 Digital IC Design Homework 1

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Functional Simulation Result							
Stage 1	Pass	Stage 2	Pass	Stage 3	Pass	Stage 4	Pass

Stage 1

```
# -------------                Stage1: Comparator2 Pass !              -------------
#
# -------------                Stage2: MedianFinder_3num Pass !        -------------
#
# -------------                Stage3: MedianFinder_5num Pass !        -------------
#
# -------------                Stage4: MedianFinder_7num Pass !        -------------
```

Stage 2

```
# -------------                Stage1: Comparator2 Pass !              -------------
#
# -------------                Stage2: MedianFinder_3num Pass !        -------------
#
# -------------                Stage3: MedianFinder_5num Pass !        -------------
#
# -------------                Stage4: MedianFinder_7num Pass !        -------------
```

Stage 3

```
# -------------                Stage1: Comparator2 Pass !              -------------
#
# -------------                Stage2: MedianFinder_3num Pass !        -------------
#
# -------------                Stage3: MedianFinder_5num Pass !        -------------
#
# -------------                Stage4: MedianFinder_7num Pass !        -------------
```

Stage 4

```
# -------------                Stage1: Comparator2 Pass !              -------------
#
# -------------                Stage2: MedianFinder_3num Pass !        -------------
#
# -------------                Stage3: MedianFinder_5num Pass !        -------------
#
# -------------                Stage4: MedianFinder_7num Pass !        -------------
```

Description of your design

前三題都按照指示的圖寫就好，最後一題先挑 6 個數字出來 然後用 comparator2 去找出三對 min ,max，再分別找出三個 min 中最小的，和三個 max 中最大的，分別淘汰掉，就剩 4 個數和沒有做過的數字，總共 5 個，放進 MedianFinder_5num 就好。