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1. Week 5 Exercises

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The list of midterm exam exercises is shown below. The exercises themselves can be found in the comments at the head of the code.

1. **sumdig.c**
2. **donald.c**
3. **euclidit.c**
4. **maxquack.c** Uses a stack, and requires *Quack.c* and *Quack.h* from lectures.
5. **nth.c**
6. **searchQ.c** Uses a queue, and requires *Quack.c* and *Quack.h* from lectures, plus an extra function with signature (you need to add this to *Quack.h*):

切换行号显示

```
1  int heightQuack(Quack) ;
```

and ADT code (add to *Quack.c*):

切换行号显示

```
1  int heightQuack(Quack qs) { // return number of
elements on quack
2      return qs->top + 1;
3  }
```

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