## Homework 7 posted Apr. 24, due Apr. 29 11:59pm (turn-in through email or paper during the day).

(30pts) Register Allocation (postponed from hw6)

b. (20p) Exercise 11.1 in the textbook

c. (10p) Exercises 11.2 (a) in the textbook

(30p) Garbage collection.

Apply the Mark-Sweep (10p) and Copying (20p) GC to the following program at the end of the execution.

```
class B{
  int val;
  B next;
  static B gp;
}
. . .
F () {
  B head= new B(0, nil);
  B tail = head;
  for (int i=1; i< 5; i++) {
     tail.next=new B(i, nil);
     tail=tail.next;
  }
  head=head->next->next;
  gp=head;
  head=head->next;
}
```