280 Quiz 4/5/07 10 pts.

Name ———————————————————— TA —————

1. List three disadvantages of dispatching-on-type.

```
(define fact1                    (define fact2
  (lambda (n)                      (lambda (n product)
    (if (= n 1)                      (if (= n 1)
        1                              product
        (* n (fact1 (- n 1))))))       (fact2 (- n 1)(* product n)))))
```

2. Consider fact1 and fact2 above. Keeping in mind the examples from the big O sample sheet online, explain the differences between these two procedures in terms of time and space.