> test <- Caravan[1:1000,]

> train <- Caravan[1000:5822,]

>

> # LDA

> lda.fit2 <- lda(Purchase ~ ., data=train)

> # lda.fit2

> plot(lda.fit2)

> lda.pred2 <- predict(lda.fit2, test)

> # lda.pred2

> lda.class2 <- lda.pred2$class

> table(lda.class2)

lda.class2

No Yes

988 12

> table(lda.class2, test$Purchase)

lda.class2 No Yes

No 933 55

Yes 8 4

> mean(lda.class2==test$Purchase)

[1] 0.937

>

> # #QDA

> # qda.fit2 <- qda(Purchase ~ ., data=train)

> # qda.fit2

> # qda.pred2 <- predict(qda.fit2, test)

> # qda.pred2

> # qda.class2 <- qda.pred2$class

> # table(qda.class2)

> # table(qda.class2, test$Purchase)

> # mean(qda.class==test$Purchase)

>

>

> glm.fit <- glm(Purchase ~ ., family=binomial, data=train)

Warning message:

glm.fit: fitted probabilities numerically 0 or 1 occurred

> # summary(glm.fit)

> glm.probs <- predict(glm.fit, test, type="response")

> glm.pred <- rep("No", dim(test)[1])

> glm.pred[glm.probs>0.5] <- "Yes"

> table(glm.pred)

glm.pred

No Yes

993 7

> table(glm.pred, test$Purchase)

glm.pred No Yes

No 934 59

Yes 7 0

> mean(glm.pred == test$Purchase)

[1] 0.934