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Weilin Lu
Assign-10
Linear Discriminant Analysis
Q1
LDA equation:
Equation of LDA is: y = -10.084*x + 0.656

QDA equation
Equation of QDA is: y = 0.133*x^2 + 0.922*x+5.512

Q2
LDA accuracy:100%
The Accuracy is 100.0%

QDA accuracy:100%
The Accuracy is 100.0%

Q3
```

LDA Confusion matrix

```
LDA Confusion matrix for Year 2
TP: 27
FP: 0
FN: 0
TN: 25
```

QDA Confusion matrix

```
QDA Confusion matrix for Year 2
TP: 27
FP: 0
FN: 0
TN: 25
```

Q4

LDA:

```
TPR for Year 2 is 1.0
TNR for Year 2 is 1.0
```

QDA:

```
TPR for Year 2 is 1.0 TNR for Year 2 is 1.0
```

Q5

The long term strategy will has bigger amount at the end of the year.