### Final Exam

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December 2011

#### 1 Implementation

The support vector machine constrained optimization problem was modeled and solved using AMPL (www.ampl.com/). Computations were performed using the LOQO solver (www.princeton.edu/~rvdb/loqo/LOQO.html) on the NEOS server (www.neos-server.org/neos/solvers/). Once the solution to the dual problem was obtained, the  $\alpha$  values were imported into Java.

Java (version 1.6.0\_27) was used to make the final classification. The code is available as a Subversion repository on Google Code at http://code.google.com/p/csi873/. Compiling and running the code requires the Java build tool Maven (http://maven.apache.org/).

### 2 Model

The following AMPL model was used to solve the dual SVM problem in Equation 1 with a polynomial kernel.

$$\max_{\alpha} \sum_{i=1}^{l} \alpha_{i} - 0.5 \sum_{i,j}^{l} \alpha_{i} \alpha_{j} y_{i} y_{j} K\left(x_{i}, x_{j}\right)$$

$$s.t.$$

$$\sum_{i=1}^{l} \alpha_{i} y_{i} = 0$$

$$0 \geq \alpha_{i} \geq C, i = 1, 2, ..., l$$

$$(1)$$

model;

# number of training examples
param 1;

# number of input parameters (pixels in digit image)

```
param n;
# weight on xi penalty coefficient in primal problem
param C;
# parameters for polynomial machine kernel
param alpha;
param beta;
param delta;
# output vector (1 or -1)
param y { 1..1 };
# input data
param x { 1..1, 1..n };
# dual problem variables and simple constraints
var a \{1...1\} >= 0, <= C;
maximize obj: sum { i in 1..1 } a[i] - 0.5 *
              sum { i in 1..1, j in 1..1 } a[i] * a[j] * y[i] * y[j] *
              ( alpha * ( sum { k in 1..n } x[i,k] * x[j,k] ) + beta ) ^ delta;
s.t. const: sum { i in 1..1 } a[i] * y[i] = 0;
option solver loqo;
  The model used for the radial basis kernel was almost identical except for
the objective (and some different parameters):
# parameters for radial basis function kernel
param gamma;
maximize obj: sum { i in 1..1 } a[i] - 0.5 *
              sum { i in 1..l, j in 1..l } a[i] * a[j] * y[i] * y[j] *
              exp(-gamma * ( sum { k in i..n } ( x[i,k] - x[j,k] )^2 ) );
```

# 3 Two Digit Results

When the model was trained with the digit "2" and digit "5" training data, a misclassification error (on the testing data set) of 0.098 was achieved with the polynomial kernel and 0.110 with the radial kernel. The full results are summarized in Table 1.

Table 1: Digit 2 vs 5 Error

Data Set	Error	95% Confide	ence Interval
		Lower Bound	Upper Bound
Polynomial Training	0.000	0.000	0.000
Polynomial Testing	0.098	0.033	0.162
Radial Training	0.027	0.004	0.050
Radial Testing	0.110	0.042	0.177

						Clas	sifier				
		0	1	2	3	4	5	6	7	8	9
	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0	0	0
	2	0	0	38	0	0	3	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
Truth	4	0	0	0	0	0	0	0	0	0	0
7	5	0	0	5	0	0	36	0	0	0	0
	6	0	0	0	0	0	0	0	0	0	0
	7	0	0	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0

Figure 1: Polynomial Kernel 2 Digit Test Error Confusion Matrix

Figures 1 and 2 show the confusion matrices for the polynomial and radial kernels respectively. Figures 3, 4, 5, and 6 display images for the correctly classified training data samples for the polynomial and radial kernels applied to the "2" versus "5" classification problem. Figures 7 and 8 display the incorrectly classified "2" digits for the polynomial and radial kernels. Figures 9 and 10 display the incorrectly classified "5" digits for the polynomial and radial kernels.

Based on these experiments, the polynomial kernel was chosen to be used for the full problem. However, both methods performed quite well and their 95% confidence intervals have significant overlap. So it is unclear which method is actually superior for this handwriting problem.



Figure 2: Radial Kernel 2 Digit Test Error Confusion Matrix

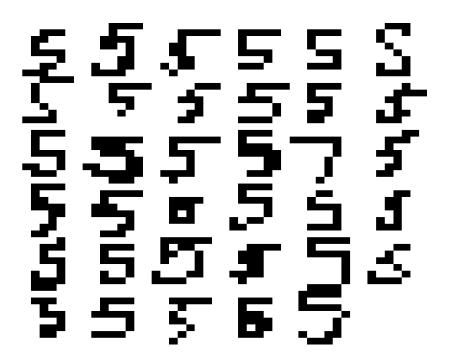


Figure 3: Radial Kernel Correctly Classified 5 Digits

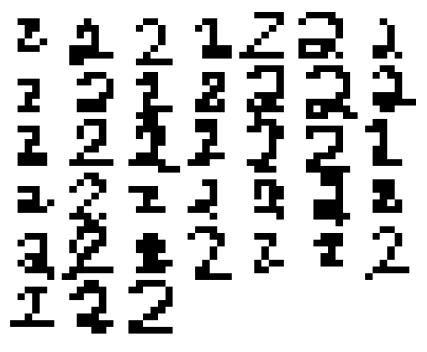


Figure 4: Radial Kernel Correctly Classified 2 Digits

# 4 All Digit Results

A misclassification error (on the full ten digit testing data set) of 0.200 was achieved with the polynomial kernel. The full results are summarized in Table 2. Figures 11 and 12 provide confusion matrices for the testing and training data sets.

### 5 Parameterization

The  $\alpha_i$  upper bound parameter C was initially set at 100. Table 3 gives the number of support vectors (with non-zero and non-C  $\alpha_i$  value) for each of the

Table 2: All Digits Error

Data Set	Error	95% Confide	ence Interval
		Lower Bound	Upper Bound
Polynomial Training Polynomial Testing	0.029 0.200	0.018 0.161	0.040 0.239

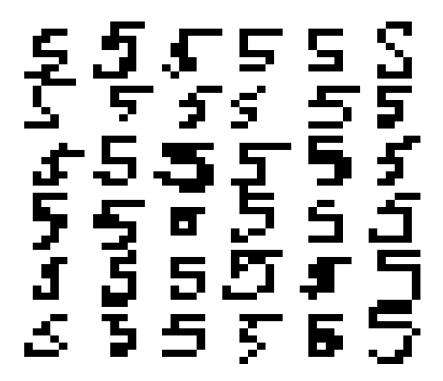


Figure 5: Polynomial Kernel Correctly Classified 5 Digits

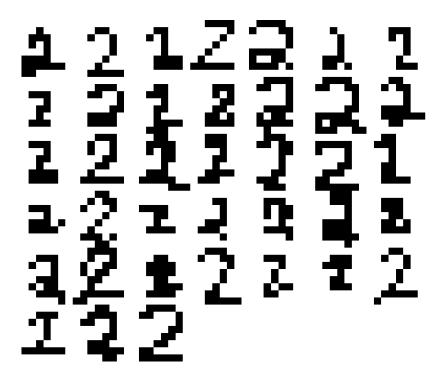


Figure 6: Polynomial Kernel Correctly Classified 2 Digits

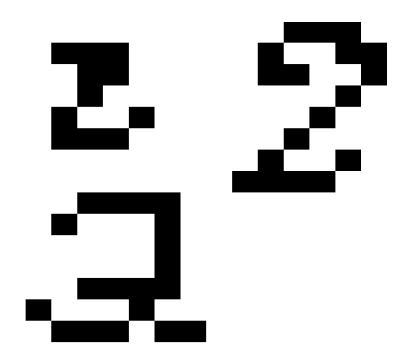


Figure 7: Polynomial Kernel 2 Misclassified as 5

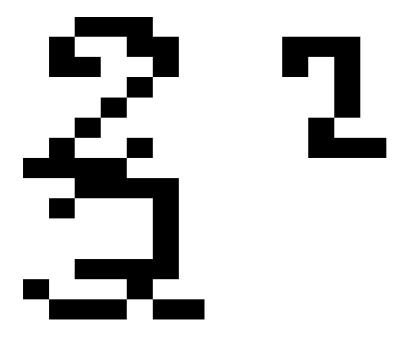


Figure 8: Radial Kernel 2 Misclassified as 5

10 SVM optimization problems solved for the 10 digit case. Out of 930 input vectors, only about 10% to 20% are chosen as support vectors by the solver. This relatively low number of support vectors indicates that the choice of C as 100 was reasonable.

# 6 Comparison

Figure 4 provides an error rate comparison between the four major classification methods which were applied to the handwriting data set. Weighted K-Nearest Neighbors with k=7 came close to the performance achieved by the polynomial kernel support vector machine (with 0.217 error versus 0.200 for the support vector machine). Naive Bayes and Neural Networks trailed with 0.388 and 0.463 misclassification error respectively.

# 7 Appendix

The appendix to this report contains a number of supporting documents. The Java source code used to read the AMPL results, perform the classification, and compute statistics is included first. The code is also available at http://code.google.com/p/csi873/source/browse/trunk/src/main/java/edu/gmu/classifier/svm/ampl/DataFileGenerator.java.

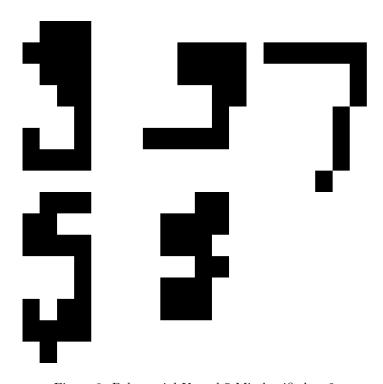


Figure 9: Polynomial Kernel 5 Misclassified as 2

Table 3: Number of Support Vectors Out Of 930

Digit	Support Vector Count
0	150
1	121
2	174
3	189
4	145
5	216
6	170
7	147
8	187
9	155

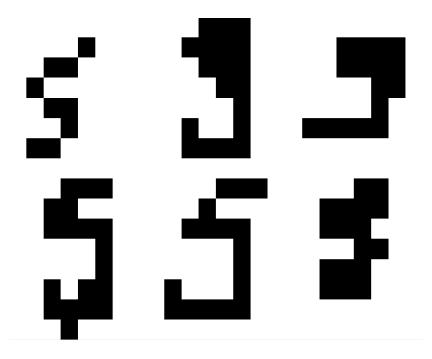


Figure 10: Radial Kernel 5 Misclassified as 2

						Class	sifier				
		0	1	2	3	4	5	6	7	8	9
	0	37	0	0	0	2	1	1	0	0	0
	1	0	36	1	2	0	0	1	1	0	0
	2	0	2	31	2	0	0	0	3	3	0
	3	0	2	2	33	0	1	1	1	1	0
뒫	4	0	1	0	0	32	0	2	2	1	3
Truth	5	1	1	1	1	1	31	1	3	1	0
	6	0	1	1	0	3	0	35	0	0	1
	7	0	2	0	0	2	0	0	36	1	0
	8	0	0	0	0	1	4	0	1	30	5
	9	0	1	0	1	4	1	0	7	0	27

Figure 11: Polynomial Kernel 10 Digit Test Error Confusion Matrix

						Class	sifier				
		0	1	2	3	4	5	6	7	8	9
	0	93	0	0	0	0	0	0	0	0	0
	1	0	93	0	0	0	0	0	0	0	0
	2	0	0	91	1	1	0	0	0	0	0
	3	0	0 0 2 89 0 1 0 0 0 0 89 0		1	0	1	0	0		
Truth	4	0			0	1	0	0	3		
7	5	0	0	0	0	0	91	2	0	0	0
	6	0	1	0	0	0	1	91	0	0	0
	7	0	0	0	0	0	0	0	93	0	0
	8	0	0	2	0	0	0	2	0	88	1
	9	0	2	0	0	4	0	0	2	0	85

Figure 12: Polynomial Kernel 10 Digit Training Error Confusion Matrix

Table 4: Missclassification Error Overview

Algorithm	Error	95% Confide	ence Interval
		Lower Bound	Upper Bound
Support Vector Machine	0.200	0.161	0.239
K-Nearest Neighbors	0.217	0.177	0.257
Naive Bayes	0.388	0.341	0.435
Neural Network	0.463	0.415	0.512

Following the Java code are the AMPL model files (both with the polynomial and radial kernels) and the AMPL data file for the "2" versus "5" classification problem (the data file for the full problem is omitted due to length). However, all AMPL model, data, and NEOS output files are also available at http://code.google.com/p/csi873/source/browse/#svn%2Ftrunk%2Ffinal%2Fampl.

## References

[1] Tom M. Mitchell, Machine Learning, WCB McGraw-Hill, Boston, 1997.

```
package edu.gmu.classifier.svm.ampl;
import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.io.OutputStream;
import java.io.OutputStreamWriter;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import edu.gmu.classifier.database.ResultsUploader;
import edu.gmu.classifier.database.UploadResultQuery;
import edu.gmu.classifier.database.UploadRunQuery;
import edu.gmu.classifier.io.DataLoader;
import edu.gmu.classifier.io.TrainingExample;
public class DataFileGenerator
        // a functor interface which defines a function for calculating the
        // y (output) value for a given training example
        // this function should always return either 1 or -1
        public interface OutputGenerator
                public double getOutput( TrainingExample data );
        }
        // a functor interface which defines a function that takes
        // two input vectors (two 64 length vectors containing 0 or 1 \,
        // in each element representing a handwriting sample) and outputs
        // a scalar value.
        public interface Kernel
                public double getValue( double[] x1, double[] x2 );
        }
        // the polynomial kernel
        public static class Polynomial implements Kernel
                double alpha, beta, delta;
                public Polynomial( double alpha, double beta, double delta )
                         this.alpha = alpha;
                         this.beta = beta;
                         this.delta = delta;
                }
                @Override
                public double getValue( double[] x1, double[] x2 )
                         double dot = 0.0;
                         for ( int i = 0; i < x1.length; i++ )
                                 dot += x1[i] * x2[i];
                         return Math.pow( alpha * dot + beta, delta );
                }
        // the radial basis kernel
        public static class Radial implements Kernel
                double gamma;
                public Radial( double gamma )
                         this.gamma = gamma;
                @Override
                public double getValue( double[] x1, double[] x2 )
                         double norm = 0.0;
                         for ( int i = 0; i < x1.length; i++ )
                                 norm += Math.pow(x1[i] - x2[i], 2.0);
                         return Math.exp( -gamma * norm );
                }
        }
```

```
// The output generator for one digit versus all others.
        // If the TrainingExample is an instance of the digit
        // the result is 1.0 otherwise it is -1.0.
       public static class OneVersusAll implements OutputGenerator
                protected int digit;
                public OneVersusAll( int digit )
                        this.digit = digit;
                }
                @Override
                public double getOutput( TrainingExample data )
                        return data.getDigit( ) == digit ? 1 : -1;
                }
       };
       // The output generator for the two class (one digit versus
       // one other digit) problem.
        // If the TrainingExample is an instance of digit1 the
       // result is a 1.0 otherwise it is -1.0.
       public static class TwoClass implements OutputGenerator
                protected int digit1;
                protected int digit2;
                public TwoClass( int digit1, int digit2 )
                        this.digit1 = digit1;
                        this.digit2 = digit2;
                }
                @Override
                public double getOutput( TrainingExample data )
                        int digit = data.getDigit( );
                        if ( digit == digit1 )
                                return 1;
                        else if ( digit == digit2 )
                                return -1;
                        else
                                return 0:
                }
       };
        // a routine for generating AMPL data files from the provided training example data files
       // this generates 11 data files (ten for the 10 digit classification problem and one for
        // the 2 versus 5 classification problem)
       public static void generateAllDataFiles( String inDirectoryString, String outDirectoryString ) throws IOException
                generateDataFile( inDirectoryString, outDirectoryString, "classify_2-5", 2, 5 );
                for ( int i = 0: i < 10: i++ )
                {
                        generateDataFile( inDirectoryString, outDirectoryString, String.format( "classify_%d", i ), i );
                }
       }
        // a helper routine which generates a single AMPL data file using
       // data from all the digits and classifying the given digit against all others
       public static void generateDataFile( String inFileName, String outDirectoryName, String outFilePrefix, int digit ) throws
I0Exception
       {
                List<TrainingExample> dataList = DataLoader.loadDirectoryTrain( inFileName );
                File outDirectory = new File( outDirectoryName );
                File outFile = new File( outDirectory, outFilePrefix + ".dat" );
                outputDataFile( new FileOutputStream( outFile ), dataList, new OneVersusAll( digit ) );
       }
        // a helper routine which generates a single AMPL data file using
        // data from only the two provided digits
       public static void generateDataFile( String inFileName, String outDirectoryName, String outFilePrefix, int digit1, int digit2 )
throws IOException
       {
                List<TrainingExample> dataList = loadData( inFileName, false, digit1, digit2 );
                File outDirectory = new File( outDirectoryName );
                File outFile = new File( outDirectory, outFilePrefix + ".dat" );
                outputDataFile( new FileOutputStream( outFile ), dataList, new TwoClass( digit1, digit2 ) );
        // loads the training examples corresponding to the two given digits from either the test or training data set
       public static List<TrainingExample> loadData( String inFileName, boolean test, int digit1, int digit2 ) throws IOException
                List<TrainingExample> dataList = test ? DataLoader.loadDirectoryTest( inFileName ) : DataLoader.loadDirectoryTrain
```

```
( inFileName );
                List<TrainingExample> filteredList = new ArrayList<TrainingExample>( dataList.size( ) );
                for ( TrainingExample data : dataList )
                        if ( data.getDigit( ) == digit1 || data.getDigit( ) == digit2 )
                        {
                                filteredList.add( data );
                        }
                }
                return filteredList;
       }
        // generates an AMLP data file for the given dataList and output generator
       public static void outputDataFile( OutputStream stream, List<TrainingExample> dataList, OutputGenerator gen ) throws IOException
                BufferedWriter out = new BufferedWriter( new OutputStreamWriter( stream ) );
                out.write( "data;" );
               out.newLine();
                int l = dataList.size( );
               out.write( String.format( "param l := %d;%n", l ) );
                int n = dataList.get(0).getInputs().length;
               out.write( String.format( "param n := %d;%n", n ) );
               out.write( String.format( "param C := %f;%n", 100.0 ) );
                // Radial Kernel Parameters
                //out.write( String.format( "param gamma := %f;%n", 0.0521 ) );
                // Polvnomial Kernel Parameters
               out.write( String.format( "param alpha := %f;%n", 0.0156 ) );
               out.write( String.format( "param beta := %f;%n", 0.0 ) );
               out.write( String.format( "param delta := %f;%n", 3.0 ) );
                out.write( String.format( "param y :=%n" ) );
                for ( int i = 0; i < l; i++ )
                        TrainingExample data = dataList.get( i );
                        out.write( String.format( " %d %.1f%n", i + 1, gen.getOutput( data ) ) );
               }
                out.write( ";" );
               out.newLine( );
               out.write( String.format( "param x:" ) );
                for ( int i = 0; i < n; i++ )
                {
                        out.write( String.format( " %d", i + 1 ) );
                }
                out.write( String.format( " :=%n" ) );
                for ( int i = 0; i < l; i++ )
                        TrainingExample data = dataList.get( i );
                        double[] input = data.getInputs( );
                        out.write( String.format( " %d", i + 1 ) );
                        for ( int j = 0; j < n; j++ )
                        {
                                out.write( String.format( " %.1f", input[j] ) );
                        }
                        out.newLine( );
                out.write( ";" );
               out.newLine();
               out.close( );
       }
        // reads a NEOS AMPL output file and returns the calculated alpha values
       public static double[] read_a( String file ) throws IOException
                FileInputStream stream = new FileInputStream( file );
                try
                {
                        return read_a( stream );
                finally
                {
                        stream.close( );
```

// reads a NEOS AMPL output file and returns the calculated alpha values

```
\verb"public static double[] read\_a( InputStream stream ) throws IOException"
                List<Double> list = new ArrayList<Double>( );
                BufferedReader in = new BufferedReader( new InputStreamReader( stream ) );
                String line = null;
                boolean parseMode = false;
                while ( ( line = in.readLine( ) ) != null )
                        if ( parseMode )
                                 String[] tokens = line.trim( ).split( "[\\s]+" );
                                 try
                                         for ( int i = 0; i < tokens.length / 2; <math>i++ )
                                                  int index = Integer.parseInt( tokens[i * 2] ) - 1;
                                                 double value = Double.parseDouble( tokens[i * 2 + 1] );
                                                 ensureLength( index, list );
                                                 list.set( index, value );
                                         }
                                 catch ( NumberFormatException e )
                                         parseMode = false;
                        else if ( line.startsWith( "a [*] :=" ) )
                                 parseMode = true:
                }
                double[] array = new double[list.size()];
                for ( int i = 0; i < list.size( ); i++ )
                        array[i] = list.get( i );
                return arrav:
        }
        // calculate b's for each a
        // only one is needed for an i s.t. 0 < a[i] < C, but this is a good check
        public static double[] calculate_b( List<TrainingExample> dataList, OutputGenerator out, Kernel kernel, double C, double[] a )
throws IOException
                double[] b = new double[a.length];
                for ( int i = 0; i < b.length; i++ )
                        double[] x i = dataList.get( i ).getInputs( );
                        double y_i = out.getOutput( dataList.get( i ) );
                        double sum = 0.0;
                        for ( int j = 0; j < b.length; j++ )
                                 TrainingExample x = dataList.get(j);
                                 double[] x_j = x.getInputs();
                                 double y_j = out.getOutput( x );
                                 sum += y_j * a[j] * kernel.getValue( x_j, x_i );
                        b[i] = sum - y_i;
                }
                return b;
        }
         * Makes a classification decision for the 2 versus 5 case based on the AMPL solution.
           @param dataListTest a list of data samples of classify
           @param dataListTrain the training data list used to train the svm classifier
           @param out a generator for calculating expected output values from the training data
           @param kernel the kernel used in the AMPL model to calculate the alpha vector
           @param a the alpha vector generated via AMPL
@param b the beta value calculated from the AMPL solution
         * @return a vector containing the predicted y values for each testing example
        public static double[] calculate_y_predicted( List<TrainingExample> dataListTest, List<TrainingExample> dataListTrain,
OutputGenerator out, Kernel kernel, double[] a, double b )
        {
                double[] y_predicted = new double[ dataListTest.size( ) ];
```

```
// iterate over the training examples
                for ( int i = 0; i < dataListTest.size( ); i++ )</pre>
                        TrainingExample x_i = dataListTest.get( i );
                        // apply the formula from the svm slides to compute a y_predicted value
                        // based on the alpha vector (solution to the dual problem)
                        double sum = 0.0;
                        for ( int j = 0; j < a.length; j++ )
                                TrainingExample x_j = dataListTrain.get( j );
                                double y_j = out.\overline{get0utput(x_j)};
                                double a_j = a[j];
                                sum += y_j * a_j * kernel.getValue( x_j.getInputs( ), x_i.getInputs( ) );
                        y_predicted[i] = sum - b;
                return y_predicted;
        }
        // ensures that the length of the provided list is at least large enough to contain index
        private static void ensureLength( int index, List<Double> list )
                if ( list.size( ) > index ) return;
                for ( int i = list.size( ); i <= index; i++ )</pre>
                {
                        list.add( i, 0.0 );
                }
        }
        // uses calculate_y_predicted( ) to classify each testing example and compute an error rate
        public static int[] calculateErrorRate( List<TrainingExample> dataListTest, List<TrainingExample> dataListTrain,
OutputGenerator out, Kernel kernel, double[] a, double b )
                int[] digit = new int[ dataListTest.size( ) ];
                double[] y = calculate_y_predicted( dataListTest, dataListTrain, out, kernel, a, b );
                double count = 0.0;
                for ( int i = 0; i < dataListTest.size( ); i++ )</pre>
                        double value = y[i];
                        double predicted = y[i] > 0 ? 1.0 : -1.0;
                        double actual = out.getOutput( dataListTest.get( i ) );
                        digit[i] = predicted > 0 ? 2 : 5;
                        if ( predicted == actual )
                        {
                                count += 1.0;
                        }
                        System.out.printf( "Value %.4f Predicted %.1f Actual %.1f%n", value, predicted, actual );
                }
                double errorRate = 1.0 - ( count / dataListTest.size( ) );
                \label{eq:double errorInterval = 1.96 * Math.sqrt( errorRate * ( 1 - errorRate ) / dataListTest.size( ) );}
                System.out.printf( "Error Rate: %.3f Train Interval: (%.3f, %.3f)%n", errorRate, errorRate - errorInterval, errorRate +
errorInterval);
                return digit;
        }
        // a database helper method for uploading results in the SQL data format
        // required by the CSI710 handwriting sample viewer (used for generating
        // confusion matrices and handwriting sample visualizations)
        public static void uploadResultsTest2_5( String description, List<TrainingExample> list, int[] predicted )
                int first2id = 171257;
                int first5id = 171380;
                UploadRunQuery uploadRunQuery = new UploadRunQuery( description, System.currentTimeMillis());
                uploadRunQuery.runQuery( );
                int ixRunId = uploadRunQuery.getRunId( );
                int count2 = 0:
                int count5 = 0;
                for ( int i = 0 ; i < list.size( ); i++ )
                        TrainingExample data = list.get( i );
                        String sClassification = String.valueOf( predicted[i] );
                        int index;
                        if ( data.getDigit( ) == 2 )
```

```
{
                          index = first2id + count2;
                          count2 += 1;
                 else
                 {
                           index = first5id + count5;
                          count5 += 1;
                 }
                 UploadResultQuery uploadResultQuery = new UploadResultQuery( index, ixRunId, sClassification );
                 uploadResultQuery.runQuery( );
        }
// helper method for generating AMPL model and data files
public static void generateAmplDataFiles( ) throws IOException
        String inputDirectory = "/home/ulman/CSI873/midterm/data";
String outputDirectory = "/home/ulman/CSI873/midterm/repository/final/ampl";
        generateAllDataFiles( inputDirectory, outputDirectory );
}
public static void generateTestingResultsPolynomial_25( ) throws IOException
        generateTestingResults( new Polynomial( 0.0156, 0.0, 3.0 ), "SVM 2vs5 run \alpha = 0.0156, \beta = 0, d = 3" );
}
public static void generateTestingResultsRadial_25( ) throws IOException
        generateTestingResults( new Radial( 0.0521 ), "SVM 2vs5 radial" );
// runs two digit 2-5 classification problem and calculates and displays results
public static void generateTestingResults( Kernel kernel, String name ) throws IOException
        \label{listTrainingExample} List<TrainingExample> dataListTrain = loadData( "/home/ulman/CSI873/midterm/data", false, 2, 5 ); \\ List<TrainingExample> dataListTest = loadData( "/home/ulman/CSI873/midterm/data", true, 2, 5 ); \\ String outputDirectory = "/home/ulman/CSI873/midterm/repository/final/ampl"; \\ \\
        String temporaryOutput = String.format( "%s/%s", outputDirectory, "out.tmp" );
        double C = 100.0;
        OutputGenerator out = new TwoClass( 2, 5 );
        double[] a = read_a( temporaryOutput );
        double[] b = calculate_b( dataListTrain, out, kernel, C, a );
        double count = 0.0;
        double b_sum = 0.0;
         for ( int i = 0 ; i < a.length ; i++ )
        {
                 if ( a[i] < C \&\& a[i] > 0.001 )
                 {
                           System.out.printf( "%.4f %.12f%n", a[i], b[i] );
                          b sum += b[i];
                          \overline{count} += 1.0;
                 }
        }
        double b_avg = b_sum / count;
        System.out.println( "Error rate on Training Data." );
        calculateErrorRate( dataListTrain, dataListTrain, out, kernel, a, b_avg );
        System.out.println( "Error rate on Testing Data." );
         int[] testPreditions = calculateErrorRate( dataListTest, dataListTrain, out, kernel, a, b avg );
        uploadResultsTest2_5( name, dataListTest, testPreditions );
/// Full 10 Digit Problem ///
// a helper data structure for storing the alpha output values from AMPL
// along with the calculated b value and an OutputGenerator
public static class Model
        double[] a;
        double b:
        OutputGenerator out;
        public Model( double[] a, double b, OutputGenerator out )
                 this.a = a;
                 this.b = b;
                 this.out = out;
        }
}
```

```
// runs ten digit classification problem and calculates and displays results
        public static void generateTestingResultsAll( ) throws IOException
                List<TrainingExample> dataListTrain = DataLoader.loadDirectoryTrain( "/home/ulman/CSI873/midterm/data" );
                List<TrainingExample> dataListTest = DataLoader.loadDirectoryTest( "/home/ulman/CSI873/midterm/data" );
                Kernel kernel = new Polynomial( 0.0156, 0.0, 3.0 );
                Map<Integer,Model> map = new HashMap<Integer,Model>( );
                for ( int i = 0 ; i < 10 ; i++ )
                        String outputDirectory = "/home/ulman/CSI873/midterm/repository/final/ampl";
                        String temporaryOutput = String.format( "%s/%s", outputDirectory, String.format( "out_%d.txt", i ) );
                        double C = 100.0;
                        OutputGenerator out = new OneVersusAll( i );
                        double[] a = read_a( temporaryOutput );
                        double[] b = calculate_b( dataListTrain, out, kernel, C, a );
                        double count = 0.0:
                        double b sum = 0.0;
                        for ( int j = 0 ; j < a.length ; j++ )
                                if (a[j] < C \&\& a[j] > 0.001)
                                {
                                        System.out.printf( "%.4f %.12f%n", a[j], b[j] );
                                        b_sum += b[j];
                                        count += 1.0;
                                }
                        }
                        double b avg = b sum / count;
                        map.put( i, new Model( a, b_avg, out ) );
                }
                System.out.println( "Error rate on Training Data." )
                int[] trainPreditions = calculateErrorRate( dataListTrain, dataListTrain, kernel, map );
                System.out.println( "Error rate on Testing Data." );
                int[] testPreditions = calculateErrorRate( dataListTest, dataListTrain, kernel, map );
                uploadResultsAllTrain( trainPreditions );
                uploadResultsAllTest( testPreditions );
        }
        // uses calculate_y_predicted( ) to classify each testing example and compute an error rate
        public static int[] calculateErrorRate( List<TrainingExample> dataListTest, List<TrainingExample> dataListTrain, Kernel kernel,
Map<Integer, Model > map )
        {
                int[] predicted digit = calculate y predicted( dataListTest, dataListTrain, kernel, map );
                double count = 0.0;
                for ( int i = 0; i < dataListTest.size( ); i++ )</pre>
                        TrainingExample data = dataListTest.get( i );
                        if ( data.getDigit( ) == predicted_digit[i] )
                        {
                                count += 1.0;
                        }
                }
                double errorRate = 1.0 - ( count / dataListTest.size( ) );
                double errorInterval = 1.96 * Math.sqrt( errorRate * ( 1 - errorRate ) / dataListTest.size( ) );
                System.out.printf( "Error Rate: %.3f Train Interval: (%.3f, %.3f)%n", errorRate, errorRate - errorInterval, errorRate +
errorInterval ):
                return predicted_digit;
        }
         * Makes a classification decision for the 10 digit classification problem based on the solutions
          to the ten individual AMPL problems.
          @param dataListTest a list of data samples of classify
           @param dataListTrain the training data list used to train the svm classifier
           @param out a generator for calculating expected output values from the training data
          @param kernel the kernel used in the AMPL model to calculate the alpha vector
         * @param map the alpha and beta values generated via AMPL for each of the ten separate SVMs constructed (one for each digit)
         * @return a vector containing the predicted y values for each testing example
        public static int[] calculate_y_predicted( List<TrainingExample> dataListTest, List<TrainingExample> dataListTrain, Kernel
kernel, Map<Integer,Model> map )
        {
                int[] predicted digit = new int[ dataListTest.size( ) ];
```

```
for ( int i = 0; i < dataListTest.size( ); i++ )</pre>
                TrainingExample x_i = dataListTest.get( i );
                int best_digit = -1;
                double best_value = Double.NEGATIVE_INFINITY;
                for ( Entry<Integer,Model> entry : map.entrySet( ) )
                        int digit = entry.getKey( );
                        Model model = entry.getValue( );
                        double[] a = model.a;
                        double b = model.b;
                        OutputGenerator out = model.out;
                        double sum = 0.0;
                        for ( int j = 0; j < a.length; j++ )
                                TrainingExample x_j = dataListTrain.get( j );
                                double y_j = out.get0utput(x_j);
                                double a_j = a[j];
                                sum += y_j * a_j * kernel.getValue( x_j.getInputs( ), x_i.getInputs( ) );
                        }
                        double value = sum - b;
                        if ( value > best_value )
                        {
                                best value = value;
                                best_digit = digit;
                        }
                }
                predicted_digit[i] = best_digit;
        }
        return predicted_digit;
}
public static void uploadResultsAllTest( int[] predicted_digit )
        uploadResultsAll( "svm_testing_polynomial_all", ResultsUploader.IX_TEST_FIRST_INDEX, predicted_digit );
}
public static void uploadResultsAllTrain( int[] predicted_digit )
        uploadResultsAll( "svm_training_polynomial_all", ResultsUploader.IX_TRAIN_FIRST_INDEX, predicted_digit );
public static void uploadResultsAll( String description, int firstDataId, int[] predicted_digit )
        UploadRunQuery uploadRunQuery = new UploadRunQuery( description, System.currentTimeMillis());
        uploadRunQuery.runQuery( );
        int ixRunId = uploadRunQuery.getRunId( );
        for ( int i = 0 ; i < predicted_digit.length; i++ )</pre>
                String sClassification = String.valueOf( predicted_digit[i] );
                UploadResultQuery uploadResultQuery = new UploadResultQuery( firstDataId + i, ixRunId, sClassification );
                uploadResultQuery.runQuery( );
        }
public static void main( String[] args ) throws IOException
        generateTestingResultsAll( );
}
```

}

```
model;
# number of training examples
param l;
# number of input parameters (number of pixels in the handwriting digit images)
# weight on xi penalty coefficient in primal problem
param C;
# parameters for radial basis function kernel
param gamma;
# output vector (1 or -1)
param y { 1..l };
# input data
param x { 1..l, 1..n };
# dual problem variables and simple constraints
var a {1..l} >= 0, <= C;
maximize obj: sum { i in 1..l } a[i] - 0.5 * sum { i in 1..l, j in 1..l } a[i] * a[j] * y[i] * y[j] * exp( -gamma * ( sum { k in i..n } ( x[i,k] - x[j,k] )^2 ) );
s.t. const: sum { i in 1..l } a[i] * y[i] = 0;
option solver logo;
```

```
model;
# number of training examples
param l;
# number of input parameters (number of pixels in the handwriting digit images)
# weight on xi penalty coefficient in primal problem
param C;
# parameters for polynomial machine kernel
param alpha;
param beta;
param delta;
# output vector (1 or -1)
param y { 1..l };
# input data
param x { 1..l, 1..n };
# dual problem variables and simple constraints var a {1..l} >= 0, <= C;
maximize obj: sum { i in 1..l } a[i] - 0.5 * sum { i in 1..l, j in 1..l } a[i] * a[j] * y[i] * y[j] * ( alpha * ( sum { k in 1..n } x [i,k] * x[j,k] ) + beta ) ^ delta;
s.t. const: sum { i in 1... } a[i] * y[i] = 0;
option solver logo;
```

```
data;
param l := 186;
param n := 64;
param C := 100.000000;
param alpha := 0.015600;
param beta := 0.000000;
param delta := 3.000000;
param y := 1 1.0 2 1.0 3 1.0
 4 1.0
5 1.0
 6 1.0
7 1.0
 8 1.0
 9 1.0
 10 1.0
 11 1.0
12 1.0
 13 1.0
14 1.0
 15 1.0
16 1.0
 17 1.0
18 1.0
 19 1.0
 20 1.0
 21 1.0
 22 1.0
 23 1.0
 24 1.0
25 1.0
 26 1.0
27 1.0
28 1.0
29 1.0
 30 1.0
 31 1.0
 32 1.0
 33 1.0
 34 1.0
  35 1.0
 36 1.0
 36 1.0
37 1.0
38 1.0
39 1.0
40 1.0
 41 1.0
 42 1.0
 43 1.0
 44 1.0
 45 1.0
 46 1.0
 47 1.0
 48 1.0
49 1.0
50 1.0
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 57 1.0
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60 1.0
61 1.0
62 1.0
 63 1.0
64 1.0
 65 1.0
 66 1.0
 67 1.0
 68 1.0
 69 1.0
 70 1.0
 71 1.0
 72 1.0
73 1.0
 74 1.0
75 1.0
 76 1.0
77 1.0
 78 1.0
 79 1.0
```

80 1.0

81 1.0 82 1.0 83 1.0 84 1.0 85 1.0 86 1.0 87 1.0 88 1.0 89 1.0 90 1.0 91 1.0 91 1.0 92 1.0 93 1.0 94 -1.0 95 -1.0 96 -1.0 98 -1.0 99 -1.0 100 -1.0 101 -1.0 102 -1.0 103 -1.0 104 -1.0 104 -1.0 105 -1.0 106 -1.0 107 -1.0 108 -1.0 109 -1.0 110 -1.0 111 -1.0 112 -1.0 113 -1.0 114 -1.0 115 -1.0 115 -1.0 116 -1.0 117 -1.0 118 -1.0 119 -1.0 120 -1.0 121 -1.0 122 -1.0 123 -1.0 124 -1.0 125 -1.0 126 -1.0 127 -1.0 128 -1.0 129 -1.0 130 -1.0 131 -1.0 132 -1.0 133 -1.0 134 -1.0 135 -1.0 136 -1.0 137 -1.0 137 -1.0 138 -1.0 139 -1.0 140 -1.0 141 -1.0 142 -1.0 143 -1.0 144 -1.0 145 -1.0 146 -1.0 147 -1.0 148 -1.0 140 -1.0 149 -1.0 150 -1.0 151 -1.0 152 -1.0 153 -1.0 154 -1.0 155 -1.0 156 -1.0 157 -1.0 158 -1.0 159 -1.0 160 -1.0 161 -1.0 162 -1.0 163 -1.0 164 -1.0 165 -1.0 166 -1.0 167 -1.0 168 -1.0 169 -1.0 170 -1.0

```
171 -1.0

172 -1.0

173 -1.0

174 -1.0

175 -1.0

176 -1.0

177 -1.0

178 -1.0

180 -1.0

181 -1.0

182 -1.0

183 -1.0

184 -1.0

185 -1.0
```

```
184 -1.0
  186 -1.0
param x: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45
.
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 :=
  3 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 0.0 \ 
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73 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.0 \  \, 0.
74\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 1.0\ \ 1.0\ \ 1.0\ \ 1.0\ \ 1.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 1.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0
75 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 1.0 \ \ 1.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 1.0 \ \ 1.0 \ \ 1.0 \ \ 1.0 \ \ 1.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0
76\ \ 0.0\ \ 0.0\ \ 0.0\ \ 1.0\ \ 1.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 1.0\ \ 1.0\ \ 1.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0
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106\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 
117 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 1.0 \ \ 1.0 \ \ 1.0 \ \ 1.0 \ \ 1.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 
123 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 1.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 0.0 \ \ 
125\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 1.0\ \ 1.0\ \ 1.0\ \ 1.0\ \ 1.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0
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164\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 1.0\ \ 1.0\ \ 1.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 0.0\ \ 
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9.0	0.	0 ]	1.0	1.0	1.	0 6	0.6	0.0	0.0	0 0	.0	1.0	1.6	1	.0	1.0	0.0	0	.0	0.0	0.	0 0	0.0	1.6	1	. 0	1.0	0.0	9 0	.0	0.0	0.	0 0	.0	0.0	0.0	0.	0 0	0.6	0.0	0.0		
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NEOS Server Version 5.0
Job# : 48781
Password : eyVHlKkZ
Solver : nco:L000:AMPL
Start : 2011-12-03 20:17:45
End : 2011-12-03 20:18:53
Host : neos-1.chtc.wisc.edu
```

#### Disclaimer:

This information is provided without any express or implied warranty. In particular, there is no warranty of any kind concerning the fitness of this information for any particular purpose.

Executing AMPL. processing data. processing commands.

59.5613

23.3861

930 variables, all nonlinear 1 constraint, all linear; 930 nonzeros 1 equality constraint 1 nonlinear objective; 930 nonzeros.

LOQO 6.07: optimal solution (41 QP iterations, 121 evaluations)

LOQU 6.07: optimal solution (41 QP iterations, 121 evaluations) primal objective 4720.34696 dual objective 4720.346974 a [\*] := 1 2.54104e-07 234 17.4712 467 4.87526e-08 700 2 1 106260 07 235 20 5040 469 2 021200 00 701

5.87498e-08

3.91503e-08

1.19626e-07 235 30.5848 468 2.03188e-08 701 2.21626e-08 1.34122e-08 236 1.22409e-07 8.16445e-09 702 6.0253e-08 469 8.33865e-09 8.14434e-09 1.55225e-08 3.98039 237 470 703 9.71702e-09 238 1.57041e-08 471 19.2816 704 1.61523e-08 2.58456e-06 239 9.67456e-09 472 3.90321e-08 705 2.06737e-08 9.93516e-09 240 6.95511e-08 473 8.43092e-09 706 1.83124e-08 241 474 2.68542e-08 707 8.23788e-09 8 1.18059e-08 4.81713e-09 79,0103 242 4.52188e-09 475 708 2.76888e-08 q 5.75013e-08 10 243 1.47491e-08 66.8627 3.97575e-09 476 709 3.30243e-08 11 29.4992 244 1.39611e-08 477 1.46324e-08 710 3.63636 12 95.701 245 6.16609e-09 478 1.74349e-08 711 3.36838e-07 13 50.4826 246 2.20327e-08 479 1.30328e-08 712 0.883297 29.1869 247 2.18117e-08 480 7.13772e-09 1.33965e-07 713 63.0077 248 2.80275e-08 4.01726e-08 1.58383e-08 481 714 2.74134e-08 16 100 249 2.39507e-08 482 715 2.59658e-08 19.0734 17 250 2.65994e-08 483 2.2169e-08 716 4.67839e-08 18 57.3959 251 2.51157e-08 484 4.15796e-08 717 2.95377e-08 54.6249 252 5.32651e-08 485 8.23745 89,2605 19 718 2.73684e-08 2.52053e-08 253 3.17409e-08 20 53.6528 486 719 1.77329e-08 21 100 254 6.59136e-08 1.32297e-08 720 487 255 2.45174e-08 22 41.421 1.9533e-08 488 721 1.20815e-08 23 91.599 256 6.35262e-09 489 1.48766e-08 722 6.50441e-09 24 100 257 9.72672e-09 490 1.52682e-08 723 1.35738e-08 25 100 258 4.07421e-09 491 8.14434e-09 724 2.76213e-08 26 100 259 6.37795e-09 492 2.45174e-08 725 18.7365 7.83337e-09 27 100 260 493 5.57514e-08 726 2.92533e-08 28 100 261 9.37859e-09 494 6.42128e-08 727 1.05137e-08 29 100 262 4.4875 495 5.48359e-08 728 2.13431e-08 30 100 7.23894e-09 496 1.20387e-08 729 2.49374e-08 263 55.3495 8.59847e-09 2.6448e-07 730 1.44496e-08 264 497 31 23.8046 7.93346e-09 1.0586e-08 4.62007 265 498 731 32 1.42034e-08 8.96058 33 100 266 499 1.70863e-08 732 0.468614 34 267 3.82261e-08 500 8.20964e-09 733 2.0332e-08 35 100 268 4.15888e-08 501 2.13967e-08 734 1.562e-07 36 32.8671 269 1.48333e-07 502 8.33854e-08 735 1.02088e-08 37 4.89027e-09 270 1.01998e-08 503 6.4014e-09 736 1.93147e-08 38 100 271 1.81366e-08 504 2.18686e-08 737 1.94745e-08 272 505 1.74742e-08 39 100 2.72315e-08 5.35617e-09 738 8.59328e-09 273 1.674e-08 506 2.96089e-09 739 3.31582e-08 41 1.45215e-08 4.64615e-08 507 8.86299e-09 740 29.6416 274 42 6.23803e-08 275 1.35814e-07 508 1.9907e-08 741 4.5877e-08 43 6.94796e-09 2.64469e-08 1.14618e-08 742 1.91541e-08 276 509 2.29794e-08 743 44 277 1.82098e-08 510 8.52856e-09 2.2468e-08 1.69539e-08 4.9414e-08 45 278 511 9.37591e-09 744 2.08865e-08 46 13.4704 279 4.79054e-08 512 1.26803e-08 745 1.83089e-08 6.9851e-08 47 280 2.55699e-08 513 7.76705e-09 746 2.96616e-08 48 1.1076e-08 281 1.20888e-08 514 12.306 747 1.48627e-08 40.5431 5.12537e-09 1.61456e-07 11.4963 49 282 515 748 1.26779e-08 3.54224e-08 1.9956e-08 749 2.18718e-08 283 516

517

3.70136e-08

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29.3258
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52
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53
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54
     17.9755
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      3.54791e-08
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56
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57
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