

EXCEL ASSIGNMENT 2, PART 1
SA405, FALL 2012
INSTRUCTORS: FORAKER AND PHILLIPS

In what follows, replace YOURLASTNAME with your last name. For example, the first file MIDN Smith would save would be:

Smith_nearestneighbor.xls

To be completed and uploaded to Dropbox by 2330 on Wednesday 10/31/2012

Download the data from the website. Code up the nearest neighbor heuristic in Visual Basic as a macro in this spreadsheet. You can assume all of the distances are integers.

Your code will have to use *arrays*, which generically refer to vectors, matrices, and other higher dimensional objects. More interestingly, you should use *dynamically* dimensioned arrays. To do this in excel VBA, you should use the syntax as specified in the following example:

```
'this VB fragment declares a vector and a matrix
'and then dynamically dimensions them based on
'data read from the excel sheet
Dim n as Integer
Dim somevector() as Integer
Dim somematrix() as Integer

'read in the n from the C4 cell
n = Range("C4")

'now ReDim the arrays
ReDim somevector(1 To n) as Integer
ReDim somematrix(1 To n, 1 To n) as integer

'now somevector is an n dimensional vector
'and somematrix is an n by n matrix.
```