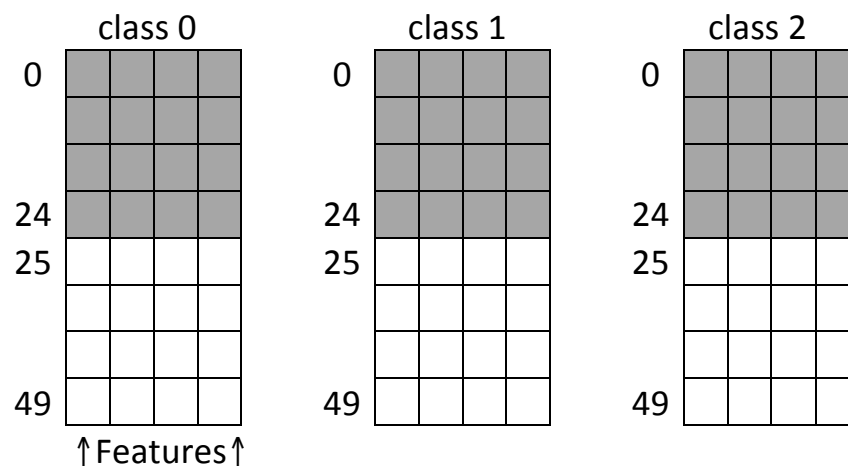


k-PPV

1. Make sure you have the following files onto your virtual machine: iris.data and kPPV.java. You will be able to compile and test your program using Eclipse IDE (specify a local folder for workspaces, such as Desktop):
 - a. create a new java project named kPPV
 - b. add the source file kPP.java in the src folder of the project within Eclipse (specify copy the file)
 - c. add the iris.data file to kPPV project (root; specify copy the file)
 - d. when the code is ready (see below) you can run it directly or execute it step by step.
2. In the kPPV.java file, complete the *computeDistances* method taking as input one example (vector X) and returning the distances table (also given as input but empty) filled with all Euclidian distances computed between X and all learning examples inside *data* structure. *data* [][][] structure is accessible everywhere in your file and has the following structure :

data [NbClasses][NbEx][NbFeatures] :  learning set,  test set



3. Write a function that returns the class of an example (X) using the distances table previously computed. For the 1-PPV, this class is the one corresponding to the class of the nearest neighbor (corresponding to minimum value in distances table).

4. In *Main* function, perform the evaluation procedure that will go through all test examples in data, find its class according to 1-PPV and compute the recognition rate and confusion matrix.
5. (Optional) Add a parameter *KNeighbors* in order to turn your 1-PPV into a real K-PPV.
6. (Optional) Modify your program to do cross-validation.