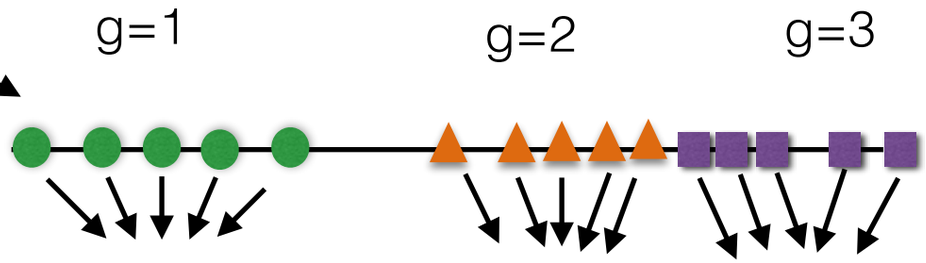
Training data

g=1 g=2 g=3

Step 1: find the optimal1-D Projection and project the data



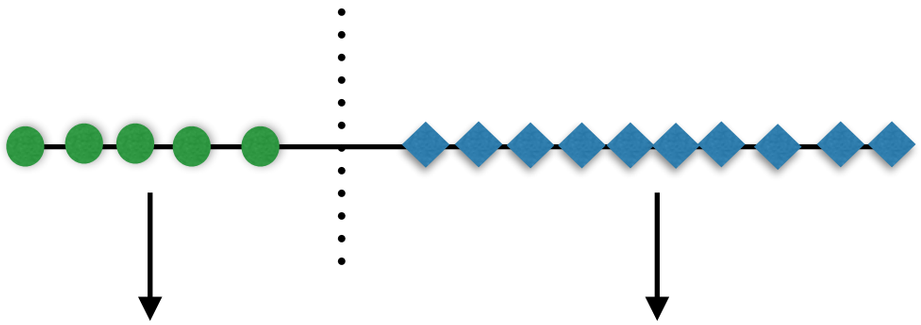
Step 2: mean for each class is computed

$\bar{z}_1$ $\bar{z}_2$ $\bar{z}_3$

Step 3: using the distance among means redefine the Problem in two class

g^*_1 g^*_2

Step 4: find the optimal 1-D Projection to separate g^*_1 and g^*_2



Final node

Step 1: find the optimal1-D Projection and project the data

Repeat step 2 to 4