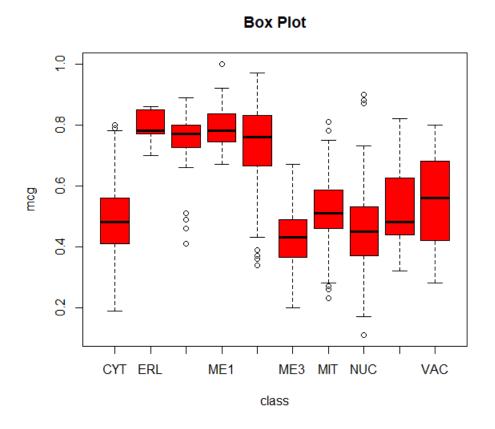
1. a. Perform ANOVA test on the discriminant analysis scores of nuclear localization signals of both nuclear and non-nuclear proteins by class variables (Target).

b. Which class is significantly different from others?



The pink colour highlighted groups are significantly different from others

```
TukeyHSD(anv1)
Tukey multiple comparisons of means
95% family-wise confidence level
 Fit: aov(formula = yeast$gvh ~ yeast$class)
 $`yeast$class`
                                         diff
                                                                             lwr
                                                                                                             upr
                                                                                        0.449782203 0.0000000
                                                        0.155211318
                       0.302496760
 ERL-CYT
                       0.247353903
0.287087669
EXC-CYT ME1-CYT
                                                       0.189928699
0.235410402
                                                                                        0.304779107 0.0000000
0.338764937 0.0000000
                                                                                        0.181964191 0.0000000
 ME2-CYT 0.133634015 0.085303840
 MIT-CYT 0.063734465 0.037820332
                                                                                       0.089648599 0.0000000
                                                                                        0.113310346 0.833207
                       0.038496760
                                                      -0.036316825
   POX-CYT
                                                     -0.005217387
-0.211754255
                                                                                        0.118210908 0.106188
0.101468541 0.983187
                       0.056496760
                     -0.055142857
                                                                                        0.139187209 0.999999
ME2-ERL -0.015409091 -0.170005391 0.139187209 0.99999993
ME2-ERL -0.168862745 -0.322372620 -0.015352870 0.0181028
ME3-ERL -0.282490798 -0.431217255 -0.133764341 0.0000001
MIT-ERL -0.238762295 -0.386752221 -0.090772369 0.0000159
NUC-ERL -0.315869464 -0.463217249 -0.168521679 0.0000000
POX-ERL -0.264000000 -0.427788121 -0.100211879 0.0000163
VAC-ERL -0.2460000000 -0.404234358 -0.087765642 0.0000409
ME2-EXC -0.113719888 -0.185622143 -0.041817633 0.0000266

ME3-EXC -0.227347940 -0.288374258 -0.166321623 0.0000000

MIT-EXC -0.183619438 -0.242828143 -0.124410733 0.0000000

NUC-EXC -0.260726607 -0.318311520 -0.203141693 0.0000000

POX-EXC -0.208857143 -0.300678714 -0.117035572 0.0000000

VAC-EXC -0.190857143 -0.272360299 -0.109353987 0.0000000

ME2-ME1 -0.153453654 -0.220854100 -0.086053208 0.0000000

ME3-ME1 -0.267081707 -0.322733278 -0.211430136 0.0000000

MIT-ME1 -0.223353204 -0.277005386 -0.169701022 0.0000000

NUC-ME1 -0.300460373 -0.352315056 -0.248605690 0.0000000

POX-ME1 -0.248590909 -0.336931652 -0.160250166 0.0000000

VAC-ME1 -0.230590909 -0.308151532 -0.153030286 0.0000000

ME3-ME2 -0.113628052 -0.166186241 -0.061069863 0.0000000
                                                    -0.166186241 -0.061069863 0.0000000
-0.120335871 -0.019463229 0.0005098
-0.195526550 -0.098486888 0.0000000
MIT-ME2 -0.069899550
NUC-ME2 -0.147006719
 POX-ME2 -0.095137255
                                                     -0.181562672
                                                                                     -0.008711838 0.0179490
MIT-ME3 0.043728502 0.010590915 0.076866090 0.0012662
NUC-ME3 -0.033378666 -0.063519190 -0.003238142 0.0167022
                           .018490798
                                                                                              101569161
 NUC-MIT -0.077107169 -0.103373316 -0.050841022 0.0000000
                       -0.025237705 -0.101428841
-0.007237705 -0.070614772
0.051869464 -0.023066780
                                                                                        0.126805708 0.
 VAC-NUC 0.069869464 0.008006679 0.131732248 0.0131041
                       0.018000000 -0.076563116
```