> testdata = read.table(file=file.choose())

> str(testdata)

'data.frame': 2947 obs. of 561 variables:

$ V1 : num 0.257 0.286 0.275 0.27 0.275 ...

$ V2 : num -0.0233 -0.0132 -0.0261 -0.0326 -0.0278 ...

$ V3 : num -0.0147 -0.1191 -0.1182 -0.1175 -0.1295 ...

$ V4 : num -0.938 -0.975 -0.994 -0.995 -0.994 ...

$ V5 : num -0.92 -0.967 -0.97 -0.973 -0.967 ...

$ V6 : num -0.668 -0.945 -0.963 -0.967 -0.978 ...

$ V7 : num -0.953 -0.987 -0.994 -0.995 -0.994 ...

$ V8 : num -0.925 -0.968 -0.971 -0.974 -0.966 ...

$ V9 : num -0.674 -0.946 -0.963 -0.969 -0.977 ...

$ V10 : num -0.894 -0.894 -0.939 -0.939 -0.939 ...

$ V11 : num -0.555 -0.555 -0.569 -0.569 -0.561 ...

$ V12 : num -0.466 -0.806 -0.799 -0.799 -0.826 ...

$ V13 : num 0.717 0.768 0.848 0.848 0.849 ...

$ V14 : num 0.636 0.684 0.668 0.668 0.671 ...

$ V15 : num 0.789 0.797 0.822 0.822 0.83 ...

$ V16 : num -0.878 -0.969 -0.977 -0.974 -0.975 ...

$ V17 : num -0.998 -1 -1 -1 -1 ...

$ V18 : num -0.998 -1 -1 -0.999 -0.999 ...

$ V19 : num -0.934 -0.998 -0.999 -0.999 -0.999 ...

$ V20 : num -0.976 -0.994 -0.993 -0.995 -0.993 ...

$ V21 : num -0.95 -0.974 -0.974 -0.979 -0.967 ...

$ V22 : num -0.83 -0.951 -0.965 -0.97 -0.976 ...

$ V23 : num -0.168 -0.302 -0.618 -0.75 -0.591 ...

$ V24 : num -0.379 -0.348 -0.695 -0.899 -0.74 ...

$ V25 : num 0.246 -0.405 -0.537 -0.554 -0.799 ...

$ V26 : num 0.521 0.507 0.242 0.175 0.116 ...

$ V27 : num -0.4878 -0.1565 -0.115 -0.0513 -0.0289 ...

$ V28 : num 0.4823 0.0407 0.0327 0.0342 -0.0328 ...

$ V29 : num -0.0455 0.273 0.1924 0.1536 0.2943 ...

$ V30 : num 0.21196 0.19757 -0.01194 0.03077 0.00063 ...

$ V31 : num -0.1349 -0.1946 -0.0634 -0.1293 -0.0453 ...

$ V32 : num 0.131 0.411 0.471 0.446 0.168 ...

$ V33 : num -0.0142 -0.3405 -0.5074 -0.4195 -0.0682 ...

$ V34 : num -0.106 0.0776 0.1885 0.2715 0.0744 ...

$ V35 : num 0.0735 -0.084 -0.2316 -0.2258 0.0271 ...

$ V36 : num -0.1715 0.0353 0.6321 0.4164 -0.1459 ...

$ V37 : num 0.0401 -0.0101 -0.5507 -0.2864 -0.0502 ...

$ V38 : num 0.077 -0.105 0.3057 -0.0638 0.2352 ...

$ V39 : num -0.491 -0.429 -0.324 -0.167 0.29 ...

$ V40 : num -0.709 0.399 0.28 0.545 0.458 ...

$ V41 : num 0.936 0.927 0.93 0.929 0.927 ...

$ V42 : num -0.283 -0.289 -0.288 -0.293 -0.303 ...

$ V43 : num 0.115 0.153 0.146 0.143 0.138 ...

$ V44 : num -0.925 -0.989 -0.996 -0.993 -0.996 ...

$ V45 : num -0.937 -0.984 -0.988 -0.97 -0.971 ...

$ V46 : num -0.564 -0.965 -0.982 -0.992 -0.968 ...

$ V47 : num -0.93 -0.989 -0.996 -0.993 -0.996 ...

$ V48 : num -0.938 -0.983 -0.989 -0.971 -0.971 ...

$ V49 : num -0.606 -0.965 -0.98 -0.993 -0.969 ...

$ V50 : num 0.906 0.856 0.856 0.856 0.854 ...

$ V51 : num -0.279 -0.305 -0.305 -0.305 -0.313 ...

$ V52 : num 0.153 0.153 0.139 0.136 0.134 ...

$ V53 : num 0.944 0.944 0.949 0.947 0.946 ...

$ V54 : num -0.262 -0.262 -0.262 -0.273 -0.279 ...

$ V55 : num -0.0762 0.149 0.145 0.1421 0.1309 ...

$ V56 : num -0.0178 0.0577 0.0406 0.0461 0.0554 ...

$ V57 : num 0.829 0.806 0.812 0.809 0.804 ...

$ V58 : num -0.865 -0.858 -0.86 -0.854 -0.843 ...

$ V59 : num -0.968 -0.957 -0.961 -0.963 -0.965 ...

$ V60 : num -0.95 -0.988 -0.996 -0.992 -0.996 ...

$ V61 : num -0.946 -0.982 -0.99 -0.973 -0.972 ...

$ V62 : num -0.76 -0.971 -0.979 -0.996 -0.969 ...

$ V63 : num -0.425 -0.729 -0.823 -0.823 -0.83 ...

$ V64 : num -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 ...

$ V65 : num 0.219 -0.465 -0.53 -0.7 -0.302 ...

$ V66 : num -0.43 -0.51 -0.295 -0.343 -0.482 ...

$ V67 : num 0.431 0.525 0.305 0.359 0.539 ...

$ V68 : num -0.432 -0.54 -0.315 -0.375 -0.596 ...

$ V69 : num 0.433 0.554 0.326 0.392 0.655 ...

$ V70 : num -0.795 -0.746 -0.232 -0.233 -0.493 ...

$ V71 : num 0.781 0.733 0.169 0.176 0.463 ...

$ V72 : num -0.78 -0.737 -0.155 -0.169 -0.465 ...

$ V73 : num 0.785 0.749 0.164 0.185 0.483 ...

$ V74 : num -0.984 -0.845 -0.429 -0.297 -0.536 ...

$ V75 : num 0.987 0.869 0.44 0.304 0.544 ...

$ V76 : num -0.989 -0.893 -0.451 -0.311 -0.553 ...

$ V77 : num 0.988 0.913 0.458 0.315 0.559 ...

$ V78 : num 0.981 0.945 0.548 0.986 0.998 ...

$ V79 : num -0.996 -0.911 -0.335 0.653 0.916 ...

$ V80 : num -0.96 -0.739 0.59 0.747 0.929 ...

$ V81 : num 0.072 0.0702 0.0694 0.0749 0.0784 ...

$ V82 : num 0.04575 -0.01788 -0.00491 0.03227 0.02228 ...

$ V83 : num -0.10604 -0.00172 -0.01367 0.01214 0.00275 ...

$ V84 : num -0.907 -0.949 -0.991 -0.991 -0.992 ...

$ V85 : num -0.938 -0.973 -0.971 -0.973 -0.979 ...

$ V86 : num -0.936 -0.978 -0.973 -0.976 -0.987 ...

$ V87 : num -0.916 -0.969 -0.991 -0.99 -0.991 ...

$ V88 : num -0.937 -0.974 -0.973 -0.973 -0.977 ...

$ V89 : num -0.949 -0.979 -0.975 -0.978 -0.985 ...

$ V90 : num -0.903 -0.915 -0.992 -0.992 -0.994 ...

$ V91 : num -0.95 -0.981 -0.975 -0.975 -0.986 ...

$ V92 : num -0.891 -0.978 -0.962 -0.962 -0.986 ...

$ V93 : num 0.898 0.898 0.994 0.994 0.994 ...

$ V94 : num 0.95 0.968 0.976 0.976 0.98 ...

$ V95 : num 0.946 0.966 0.966 0.97 0.985 ...

$ V96 : num -0.931 -0.974 -0.982 -0.983 -0.987 ...

$ V97 : num -0.995 -0.998 -1 -1 -1 ...

$ V98 : num -0.997 -0.999 -0.999 -0.999 -1 ...

$ V99 : num -0.997 -0.999 -0.999 -0.999 -1 ...

[list output truncated]

> testdatapart1 <- testdata[,1:6]

> testdatapart2 <- testdata[,41:46]

> testdatapart3 <- testdata[,121:126]

> rm(testdata)

> testdata <- cbind(testdatapart1, testdatapart2, testdatapart3)

> str(testdata)

'data.frame': 2947 obs. of 18 variables:

$ V1 : num 0.257 0.286 0.275 0.27 0.275 ...

$ V2 : num -0.0233 -0.0132 -0.0261 -0.0326 -0.0278 ...

$ V3 : num -0.0147 -0.1191 -0.1182 -0.1175 -0.1295 ...

$ V4 : num -0.938 -0.975 -0.994 -0.995 -0.994 ...

$ V5 : num -0.92 -0.967 -0.97 -0.973 -0.967 ...

$ V6 : num -0.668 -0.945 -0.963 -0.967 -0.978 ...

$ V41 : num 0.936 0.927 0.93 0.929 0.927 ...

$ V42 : num -0.283 -0.289 -0.288 -0.293 -0.303 ...

$ V43 : num 0.115 0.153 0.146 0.143 0.138 ...

$ V44 : num -0.925 -0.989 -0.996 -0.993 -0.996 ...

$ V45 : num -0.937 -0.984 -0.988 -0.97 -0.971 ...

$ V46 : num -0.564 -0.965 -0.982 -0.992 -0.968 ...

$ V121: num 0.11998 -0.00155 -0.04821 -0.05664 -0.05999 ...

$ V122: num -0.0918 -0.1873 -0.1663 -0.126 -0.0847 ...

$ V123: num 0.1896 0.1807 0.1542 0.1183 0.0787 ...

$ V124: num -0.883 -0.926 -0.973 -0.968 -0.975 ...

$ V125: num -0.816 -0.93 -0.979 -0.975 -0.978 ...

$ V126: num -0.941 -0.968 -0.976 -0.963 -0.968 ...

> ls()

[1] "directory" "testdata" "testdatapart1" "testdatapart2" "testdatapart3"

> traindata = read.table(file=file.choose())

> str(traindata)

'data.frame': 7352 obs. of 561 variables:

$ V1 : num 0.289 0.278 0.28 0.279 0.277 ...

$ V2 : num -0.0203 -0.0164 -0.0195 -0.0262 -0.0166 ...

$ V3 : num -0.133 -0.124 -0.113 -0.123 -0.115 ...

$ V4 : num -0.995 -0.998 -0.995 -0.996 -0.998 ...

$ V5 : num -0.983 -0.975 -0.967 -0.983 -0.981 ...

$ V6 : num -0.914 -0.96 -0.979 -0.991 -0.99 ...

$ V7 : num -0.995 -0.999 -0.997 -0.997 -0.998 ...

$ V8 : num -0.983 -0.975 -0.964 -0.983 -0.98 ...

$ V9 : num -0.924 -0.958 -0.977 -0.989 -0.99 ...

$ V10 : num -0.935 -0.943 -0.939 -0.939 -0.942 ...

$ V11 : num -0.567 -0.558 -0.558 -0.576 -0.569 ...

$ V12 : num -0.744 -0.818 -0.818 -0.83 -0.825 ...

$ V13 : num 0.853 0.849 0.844 0.844 0.849 ...

$ V14 : num 0.686 0.686 0.682 0.682 0.683 ...

$ V15 : num 0.814 0.823 0.839 0.838 0.838 ...

$ V16 : num -0.966 -0.982 -0.983 -0.986 -0.993 ...

$ V17 : num -1 -1 -1 -1 -1 ...

$ V18 : num -1 -1 -1 -1 -1 ...

$ V19 : num -0.995 -0.998 -0.999 -1 -1 ...

$ V20 : num -0.994 -0.999 -0.997 -0.997 -0.998 ...

$ V21 : num -0.988 -0.978 -0.965 -0.984 -0.981 ...

$ V22 : num -0.943 -0.948 -0.975 -0.986 -0.991 ...

$ V23 : num -0.408 -0.715 -0.592 -0.627 -0.787 ...

$ V24 : num -0.679 -0.501 -0.486 -0.851 -0.559 ...

$ V25 : num -0.602 -0.571 -0.571 -0.912 -0.761 ...

$ V26 : num 0.9293 0.6116 0.273 0.0614 0.3133 ...

$ V27 : num -0.853 -0.3295 -0.0863 0.0748 -0.1312 ...

$ V28 : num 0.36 0.284 0.337 0.198 0.191 ...

$ V29 : num -0.0585 0.2846 -0.1647 -0.2643 0.0869 ...

$ V30 : num 0.2569 0.1157 0.0172 0.0725 0.2576 ...

$ V31 : num -0.2248 -0.091 -0.0745 -0.1553 -0.2725 ...

$ V32 : num 0.264 0.294 0.342 0.323 0.435 ...

$ V33 : num -0.0952 -0.2812 -0.3326 -0.1708 -0.3154 ...

$ V34 : num 0.279 0.086 0.239 0.295 0.44 ...

$ V35 : num -0.4651 -0.0222 -0.1362 -0.3061 -0.2691 ...

$ V36 : num 0.4919 -0.0167 0.1739 0.4821 0.1794 ...

$ V37 : num -0.191 -0.221 -0.299 -0.47 -0.089 ...

$ V38 : num 0.3763 -0.0134 -0.1247 -0.3057 -0.1558 ...

$ V39 : num 0.4351 -0.0727 -0.1811 -0.3627 -0.1898 ...

$ V40 : num 0.661 0.579 0.609 0.507 0.599 ...

$ V41 : num 0.963 0.967 0.967 0.968 0.968 ...

$ V42 : num -0.141 -0.142 -0.142 -0.144 -0.149 ...

$ V43 : num 0.1154 0.1094 0.1019 0.0999 0.0945 ...

$ V44 : num -0.985 -0.997 -1 -0.997 -0.998 ...

$ V45 : num -0.982 -0.989 -0.993 -0.981 -0.988 ...

$ V46 : num -0.878 -0.932 -0.993 -0.978 -0.979 ...

$ V47 : num -0.985 -0.998 -1 -0.996 -0.998 ...

$ V48 : num -0.984 -0.99 -0.993 -0.981 -0.989 ...

$ V49 : num -0.895 -0.933 -0.993 -0.978 -0.979 ...

$ V50 : num 0.892 0.892 0.892 0.894 0.894 ...

$ V51 : num -0.161 -0.161 -0.164 -0.164 -0.167 ...

$ V52 : num 0.1247 0.1226 0.0946 0.0934 0.0917 ...

$ V53 : num 0.977 0.985 0.987 0.987 0.987 ...

$ V54 : num -0.123 -0.115 -0.115 -0.121 -0.122 ...

$ V55 : num 0.0565 0.1028 0.1028 0.0958 0.0941 ...

$ V56 : num -0.375 -0.383 -0.402 -0.4 -0.4 ...

$ V57 : num 0.899 0.908 0.909 0.911 0.912 ...

$ V58 : num -0.971 -0.971 -0.97 -0.969 -0.967 ...

$ V59 : num -0.976 -0.979 -0.982 -0.982 -0.984 ...

$ V60 : num -0.984 -0.999 -1 -0.996 -0.998 ...

$ V61 : num -0.989 -0.99 -0.992 -0.981 -0.991 ...

$ V62 : num -0.918 -0.942 -0.993 -0.98 -0.98 ...

$ V63 : num -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 ...

$ V64 : num -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 ...

$ V65 : num 0.114 -0.21 -0.927 -0.596 -0.617 ...

$ V66 : num -0.59042 -0.41006 0.00223 -0.06493 -0.25727 ...

$ V67 : num 0.5911 0.4139 0.0275 0.0754 0.2689 ...

$ V68 : num -0.5918 -0.4176 -0.0567 -0.0858 -0.2807 ...

$ V69 : num 0.5925 0.4213 0.0855 0.0962 0.2926 ...

$ V70 : num -0.745 -0.196 -0.329 -0.295 -0.167 ...

$ V71 : num 0.7209 0.1253 0.2705 0.2283 0.0899 ...

$ V72 : num -0.7124 -0.1056 -0.2545 -0.2063 -0.0663 ...

$ V73 : num 0.7113 0.1091 0.2576 0.2048 0.0671 ...

$ V74 : num -0.995 -0.834 -0.705 -0.385 -0.237 ...

$ V75 : num 0.996 0.834 0.714 0.386 0.239 ...

$ V76 : num -0.996 -0.834 -0.723 -0.387 -0.241 ...

$ V77 : num 0.992 0.83 0.729 0.385 0.241 ...

$ V78 : num 0.57 -0.831 -0.181 -0.991 -0.408 ...

$ V79 : num 0.439 -0.866 0.338 -0.969 -0.185 ...

$ V80 : num 0.987 0.974 0.643 0.984 0.965 ...

$ V81 : num 0.078 0.074 0.0736 0.0773 0.0734 ...

$ V82 : num 0.005 0.00577 0.0031 0.02006 0.01912 ...

$ V83 : num -0.06783 0.02938 -0.00905 -0.00986 0.01678 ...

$ V84 : num -0.994 -0.996 -0.991 -0.993 -0.996 ...

$ V85 : num -0.988 -0.981 -0.981 -0.988 -0.988 ...

$ V86 : num -0.994 -0.992 -0.99 -0.993 -0.992 ...

$ V87 : num -0.994 -0.996 -0.991 -0.994 -0.997 ...

$ V88 : num -0.986 -0.979 -0.979 -0.986 -0.987 ...

$ V89 : num -0.993 -0.991 -0.987 -0.991 -0.991 ...

$ V90 : num -0.985 -0.995 -0.987 -0.987 -0.997 ...

$ V91 : num -0.992 -0.979 -0.979 -0.992 -0.992 ...

$ V92 : num -0.993 -0.992 -0.992 -0.99 -0.99 ...

$ V93 : num 0.99 0.993 0.988 0.988 0.994 ...

$ V94 : num 0.992 0.992 0.992 0.993 0.993 ...

$ V95 : num 0.991 0.989 0.989 0.993 0.986 ...

$ V96 : num -0.994 -0.991 -0.988 -0.993 -0.994 ...

$ V97 : num -1 -1 -1 -1 -1 ...

$ V98 : num -1 -1 -1 -1 -1 ...

$ V99 : num -1 -1 -1 -1 -1 ...

[list output truncated]

> traindatapart1 <- traindata[,1:6]

> traindatapart2 <- traindata[,41:46]

> traindatapart3 <- traindata[,121:126]

> rm(traindata)

> traindata <- cbind(traindatapart1, traindatapart2, traindatapart3)

> str(traindata)

'data.frame': 7352 obs. of 18 variables:

$ V1 : num 0.289 0.278 0.28 0.279 0.277 ...

$ V2 : num -0.0203 -0.0164 -0.0195 -0.0262 -0.0166 ...

$ V3 : num -0.133 -0.124 -0.113 -0.123 -0.115 ...

$ V4 : num -0.995 -0.998 -0.995 -0.996 -0.998 ...

$ V5 : num -0.983 -0.975 -0.967 -0.983 -0.981 ...

$ V6 : num -0.914 -0.96 -0.979 -0.991 -0.99 ...

$ V41 : num 0.963 0.967 0.967 0.968 0.968 ...

$ V42 : num -0.141 -0.142 -0.142 -0.144 -0.149 ...

$ V43 : num 0.1154 0.1094 0.1019 0.0999 0.0945 ...

$ V44 : num -0.985 -0.997 -1 -0.997 -0.998 ...

$ V45 : num -0.982 -0.989 -0.993 -0.981 -0.988 ...

$ V46 : num -0.878 -0.932 -0.993 -0.978 -0.979 ...

$ V121: num -0.0061 -0.0161 -0.0317 -0.0434 -0.034 ...

$ V122: num -0.0314 -0.0839 -0.1023 -0.0914 -0.0747 ...

$ V123: num 0.1077 0.1006 0.0961 0.0855 0.0774 ...

$ V124: num -0.985 -0.983 -0.976 -0.991 -0.985 ...

$ V125: num -0.977 -0.989 -0.994 -0.992 -0.992 ...

$ V126: num -0.992 -0.989 -0.986 -0.988 -0.987 ...

> alldata <- rbind (testdata, traindata)

> str(alldata)

'data.frame': 10299 obs. of 18 variables:

$ V1 : num 0.257 0.286 0.275 0.27 0.275 ...

$ V2 : num -0.0233 -0.0132 -0.0261 -0.0326 -0.0278 ...

$ V3 : num -0.0147 -0.1191 -0.1182 -0.1175 -0.1295 ...

$ V4 : num -0.938 -0.975 -0.994 -0.995 -0.994 ...

$ V5 : num -0.92 -0.967 -0.97 -0.973 -0.967 ...

$ V6 : num -0.668 -0.945 -0.963 -0.967 -0.978 ...

$ V41 : num 0.936 0.927 0.93 0.929 0.927 ...

$ V42 : num -0.283 -0.289 -0.288 -0.293 -0.303 ...

$ V43 : num 0.115 0.153 0.146 0.143 0.138 ...

$ V44 : num -0.925 -0.989 -0.996 -0.993 -0.996 ...

$ V45 : num -0.937 -0.984 -0.988 -0.97 -0.971 ...

$ V46 : num -0.564 -0.965 -0.982 -0.992 -0.968 ...

$ V121: num 0.11998 -0.00155 -0.04821 -0.05664 -0.05999 ...

$ V122: num -0.0918 -0.1873 -0.1663 -0.126 -0.0847 ...

$ V123: num 0.1896 0.1807 0.1542 0.1183 0.0787 ...

$ V124: num -0.883 -0.926 -0.973 -0.968 -0.975 ...

$ V125: num -0.816 -0.93 -0.979 -0.975 -0.978 ...

$ V126: num -0.941 -0.968 -0.976 -0.963 -0.968 ..

# aligning with variable names in the demo example

> alldataasg <- alldata

> str(alldataasg)

'data.frame': 10299 obs. of 18 variables:

$ V1 : num 0.257 0.286 0.275 0.27 0.275 ...

$ V2 : num -0.0233 -0.0132 -0.0261 -0.0326 -0.0278 ...

$ V3 : num -0.0147 -0.1191 -0.1182 -0.1175 -0.1295 ...

$ V4 : num -0.938 -0.975 -0.994 -0.995 -0.994 ...

$ V5 : num -0.92 -0.967 -0.97 -0.973 -0.967 ...

$ V6 : num -0.668 -0.945 -0.963 -0.967 -0.978 ...

$ V41 : num 0.936 0.927 0.93 0.929 0.927 ...

$ V42 : num -0.283 -0.289 -0.288 -0.293 -0.303 ...

$ V43 : num 0.115 0.153 0.146 0.143 0.138 ...

$ V44 : num -0.925 -0.989 -0.996 -0.993 -0.996 ...

$ V45 : num -0.937 -0.984 -0.988 -0.97 -0.971 ...

$ V46 : num -0.564 -0.965 -0.982 -0.992 -0.968 ...

$ V121: num 0.11998 -0.00155 -0.04821 -0.05664 -0.05999 ...

$ V122: num -0.0918 -0.1873 -0.1663 -0.126 -0.0847 ...

$ V123: num 0.1896 0.1807 0.1542 0.1183 0.0787 ...

$ V124: num -0.883 -0.926 -0.973 -0.968 -0.975 ...

$ V125: num -0.816 -0.93 -0.979 -0.975 -0.978 ...

$ V126: num -0.941 -0.968 -0.976 -0.963 -0.968 ...

> testact = read.table(file=file.choose())

> str(testact)

'data.frame': 2947 obs. of 1 variable:

$ V1: int 5 5 5 5 5 5 5 5 5 5 ...

> testsubj = read.table(file=file.choose())

> str(testsubj)

'data.frame': 2947 obs. of 1 variable:

$ V1: int 2 2 2 2 2 2 2 2 2 2 ...

> head(testsubj)

V1

1 2

2 2

3 2

4 2

5 2

6 2

> tail(testsubj)

V1

2942 24

2943 24

2944 24

2945 24

2946 24

2947 24

> trainact = read.table(file=file.choose())

> str(trainact)

'data.frame': 7352 obs. of 1 variable:

$ V1: int 5 5 5 5 5 5 5 5 5 5 ...

> head(trainact)

V1

1 5

2 5

3 5

4 5

5 5

6 5

> tail(trainact)

V1

7347 2

7348 2

7349 2

7350 2

7351 2

7352 2

> trainsubj = read.table(file=file.choose())

> str(trainsubj)

'data.frame': 7352 obs. of 1 variable:

$ V1: int 1 1 1 1 1 1 1 1 1 1 ...

> head(trainsubj)

V1

1 1

2 1

3 1

4 1

5 1

6 1

> tail(trainsubj)

V1

7347 30

7348 30

7349 30

7350 30

7351 30

7352 30

> allact<- rbind(testact, trainact)

> allsubj<- rbind(testsubj, trainsubj)

> str(allact)

'data.frame': 10299 obs. of 1 variable:

$ V1: int 5 5 5 5 5 5 5 5 5 5 ...

> str(allsubj)

'data.frame': 10299 obs. of 1 variable:

$ V1: int 2 2 2 2 2 2 2 2 2 2 ...

> colnames(allact)<- "act"

> colnames(allsubj) <- "id"

> allasg <- cbind (allsubj, allact, alldataasg)

> str(allasg)

'data.frame': 10299 obs. of 20 variables:

$ id : int 2 2 2 2 2 2 2 2 2 2 ...

$ act : int 5 5 5 5 5 5 5 5 5 5 ...

$ V1 : num 0.257 0.286 0.275 0.27 0.275 ...

$ V2 : num -0.0233 -0.0132 -0.0261 -0.0326 -0.0278 ...

$ V3 : num -0.0147 -0.1191 -0.1182 -0.1175 -0.1295 ...

$ V4 : num -0.938 -0.975 -0.994 -0.995 -0.994 ...

$ V5 : num -0.92 -0.967 -0.97 -0.973 -0.967 ...

$ V6 : num -0.668 -0.945 -0.963 -0.967 -0.978 ...

$ V41 : num 0.936 0.927 0.93 0.929 0.927 ...

$ V42 : num -0.283 -0.289 -0.288 -0.293 -0.303 ...

$ V43 : num 0.115 0.153 0.146 0.143 0.138 ...

$ V44 : num -0.925 -0.989 -0.996 -0.993 -0.996 ...

$ V45 : num -0.937 -0.984 -0.988 -0.97 -0.971 ...

$ V46 : num -0.564 -0.965 -0.982 -0.992 -0.968 ...

$ V121: num 0.11998 -0.00155 -0.04821 -0.05664 -0.05999 ...

$ V122: num -0.0918 -0.1873 -0.1663 -0.126 -0.0847 ...

$ V123: num 0.1896 0.1807 0.1542 0.1183 0.0787 ...

$ V124: num -0.883 -0.926 -0.973 -0.968 -0.975 ...

$ V125: num -0.816 -0.93 -0.979 -0.975 -0.978 ...

$ V126: num -0.941 -0.968 -0.976 -0.963 -0.968 ...

> allasg$id\_act = paste (allasg$id, allasg$act, sep = "\_")

> str(allasg)

'data.frame': 10299 obs. of 21 variables:

$ id : int 2 2 2 2 2 2 2 2 2 2 ...

$ act : int 5 5 5 5 5 5 5 5 5 5 ...

$ V1 : num 0.257 0.286 0.275 0.27 0.275 ...

$ V2 : num -0.0233 -0.0132 -0.0261 -0.0326 -0.0278 ...

$ V3 : num -0.0147 -0.1191 -0.1182 -0.1175 -0.1295 ...

$ V4 : num -0.938 -0.975 -0.994 -0.995 -0.994 ...

$ V5 : num -0.92 -0.967 -0.97 -0.973 -0.967 ...

$ V6 : num -0.668 -0.945 -0.963 -0.967 -0.978 ...

$ V41 : num 0.936 0.927 0.93 0.929 0.927 ...

$ V42 : num -0.283 -0.289 -0.288 -0.293 -0.303 ...

$ V43 : num 0.115 0.153 0.146 0.143 0.138 ...

$ V44 : num -0.925 -0.989 -0.996 -0.993 -0.996 ...

$ V45 : num -0.937 -0.984 -0.988 -0.97 -0.971 ...

$ V46 : num -0.564 -0.965 -0.982 -0.992 -0.968 ...

$ V121 : num 0.11998 -0.00155 -0.04821 -0.05664 -0.05999 ...

$ V122 : num -0.0918 -0.1873 -0.1663 -0.126 -0.0847 ...

$ V123 : num 0.1896 0.1807 0.1542 0.1183 0.0787 ...

$ V124 : num -0.883 -0.926 -0.973 -0.968 -0.975 ...

$ V125 : num -0.816 -0.93 -0.979 -0.975 -0.978 ...

$ V126 : num -0.941 -0.968 -0.976 -0.963 -0.968 ...

$ id\_act: chr "2\_5" "2\_5" "2\_5" "2\_5" ...

> factorc<-factor(allasg$id\_act)

> factorc

[1] 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5

[22] 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4

[43] 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6

[64] 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_1 2\_1 2\_1 2\_1 2\_1

[85] 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1

[106] 2\_1 2\_1 2\_1 2\_1 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3

[127] 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2

[148] 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5

[169] 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_5 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4

[190] 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_4 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6

[211] 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_6 2\_1 2\_1 2\_1 2\_1

[232] 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1 2\_1

[253] 2\_1 2\_1 2\_1 2\_1 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3

[274] 2\_3 2\_3 2\_3 2\_3 2\_3 2\_3 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2

[295] 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 2\_2 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5

[316] 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4

[337] 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_6 4\_6 4\_6

[358] 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6

[379] 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1

[400] 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_3 4\_3 4\_3 4\_3 4\_3

[421] 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_2 4\_2 4\_2

[442] 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2

[463] 4\_2 4\_2 4\_2 4\_2 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5

[484] 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_5 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4

[505] 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_4 4\_6 4\_6 4\_6 4\_6 4\_6

[526] 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_6 4\_1 4\_1

[547] 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1

[568] 4\_1 4\_1 4\_1 4\_1 4\_1 4\_1 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3

[589] 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_3 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2

[610] 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 4\_2 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5

[631] 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4

[652] 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6

[673] 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_1 9\_1 9\_1

[694] 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1

[715] 9\_1 9\_1 9\_3 9\_3 9\_3 9\_3 9\_3 9\_3 9\_3 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_3 9\_3

[736] 9\_3 9\_3 9\_3 9\_3 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_3 9\_3 9\_3 9\_3 9\_3 9\_3 9\_3 9\_3 9\_2

[757] 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5

[778] 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_5 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4

[799] 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_4 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6

[820] 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_6 9\_1 9\_1 9\_1

[841] 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1 9\_1

[862] 9\_1 9\_1 9\_3 9\_3 9\_3 9\_3 9\_3 9\_3 9\_3 9\_3 9\_3 9\_3 9\_3 9\_3 9\_3 9\_3 9\_2 9\_2 9\_2 9\_2 9\_2

[883] 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_2 9\_3 9\_3 9\_3

[904] 9\_3 9\_3 9\_3 9\_3 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5

[925] 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4

[946] 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6

[967] 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_1 10\_1

[988] 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1

[1009] 10\_1 10\_1 10\_1 10\_1 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3

[1030] 10\_3 10\_3 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2

[1051] 10\_2 10\_2 10\_2 10\_2 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5 10\_5

[1072] 10\_5 10\_5 10\_5 10\_5 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4

[1093] 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_4 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6

[1114] 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_6 10\_1 10\_1

[1135] 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1 10\_1

[1156] 10\_1 10\_1 10\_1 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3 10\_3

[1177] 10\_3 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2 10\_2

[1198] 10\_2 10\_2 10\_2 10\_2 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5

[1219] 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4

[1240] 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_6 12\_6 12\_6 12\_6

[1261] 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6

[1282] 12\_6 12\_6 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1

[1303] 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3

[1324] 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2

[1345] 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_5 12\_5 12\_5

[1366] 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5

[1387] 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_5 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4

[1408] 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_4 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6

[1429] 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6 12\_6

[1450] 12\_6 12\_6 12\_6 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1 12\_1

[1471] 12\_1 12\_1 12\_1 12\_1 12\_1 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3 12\_3

[1492] 12\_3 12\_3 12\_3 12\_3 12\_3 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2

[1513] 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 12\_2 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5

[1534] 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4

[1555] 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_6 13\_6 13\_6

[1576] 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6

[1597] 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1

[1618] 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_3 13\_3 13\_3

[1639] 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3

[1660] 13\_3 13\_3 13\_3 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2

[1681] 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5

[1702] 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5 13\_5

[1723] 13\_5 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4 13\_4

[1744] 13\_4 13\_4 13\_4 13\_4 13\_4 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6

[1765] 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_6 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1

[1786] 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_1 13\_3 13\_3

[1807] 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_3 13\_2 13\_2 13\_2

[1828] 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2 13\_2

[1849] 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5

[1870] 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_5 18\_4 18\_4

[1891] 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4 18\_4

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[9262] 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6

[9283] 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6

[9304] 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1

[9325] 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1

[9346] 28\_1 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_3 28\_3 28\_3

[9367] 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2

[9388] 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5

[9409] 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5 28\_5

[9430] 28\_5 28\_5 28\_5 28\_5 28\_5 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4

[9451] 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_4 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6

[9472] 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6

[9493] 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_6 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1

[9514] 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_1 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3

[9535] 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_3 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2

[9556] 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 28\_2 29\_5 29\_5 29\_5 29\_5

[9577] 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5

[9598] 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4

[9619] 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6

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[9682] 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_3 29\_3 29\_3 29\_3 29\_3

[9703] 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_2 29\_2

[9724] 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2

[9745] 29\_2 29\_2 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5

[9766] 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_5 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4

[9787] 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4 29\_4

[9808] 29\_4 29\_4 29\_4 29\_4 29\_4 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6

[9829] 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_6 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1

[9850] 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_1 29\_3 29\_3

[9871] 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3 29\_3

[9892] 29\_3 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2 29\_2

[9913] 29\_2 29\_2 29\_2 29\_2 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5

[9934] 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_5 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4

[9955] 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4 30\_4

[9976] 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6 30\_6

[9997] 30\_6 30\_6 30\_6 30\_6

[ reached getOption("max.print") -- omitted 299 entries ]

180 Levels: 1\_1 1\_2 1\_3 1\_4 1\_5 1\_6 10\_1 10\_2 10\_3 10\_4 10\_5 10\_6 11\_1 11\_2 11\_3 11\_4 11\_5 11\_6 12\_1 12\_2 ... 9\_6

> library(dplyr)

Attaching package: ‘dplyr’

The following object is masked from ‘package:stats’:

filter

The following objects are masked from ‘package:base’:

intersect, setdiff, setequal, union

Warning message:

package ‘dplyr’ was built under R version 3.1.2

> myasg <- tbl\_df(allasg)

> str(myasg)

Classes ‘tbl\_df’, ‘tbl’ and 'data.frame': 10299 obs. of 21 variables:

$ id : int 2 2 2 2 2 2 2 2 2 2 ...

$ act : int 5 5 5 5 5 5 5 5 5 5 ...

$ V1 : num 0.257 0.286 0.275 0.27 0.275 ...

$ V2 : num -0.0233 -0.0132 -0.0261 -0.0326 -0.0278 ...

$ V3 : num -0.0147 -0.1191 -0.1182 -0.1175 -0.1295 ...

$ V4 : num -0.938 -0.975 -0.994 -0.995 -0.994 ...

$ V5 : num -0.92 -0.967 -0.97 -0.973 -0.967 ...

$ V6 : num -0.668 -0.945 -0.963 -0.967 -0.978 ...

$ V41 : num 0.936 0.927 0.93 0.929 0.927 ...

$ V42 : num -0.283 -0.289 -0.288 -0.293 -0.303 ...

$ V43 : num 0.115 0.153 0.146 0.143 0.138 ...

$ V44 : num -0.925 -0.989 -0.996 -0.993 -0.996 ...

$ V45 : num -0.937 -0.984 -0.988 -0.97 -0.971 ...

$ V46 : num -0.564 -0.965 -0.982 -0.992 -0.968 ...

$ V121 : num 0.11998 -0.00155 -0.04821 -0.05664 -0.05999 ...

$ V122 : num -0.0918 -0.1873 -0.1663 -0.126 -0.0847 ...

$ V123 : num 0.1896 0.1807 0.1542 0.1183 0.0787 ...

$ V124 : num -0.883 -0.926 -0.973 -0.968 -0.975 ...

$ V125 : num -0.816 -0.93 -0.979 -0.975 -0.978 ...

$ V126 : num -0.941 -0.968 -0.976 -0.963 -0.968 ...

$ id\_act: chr "2\_5" "2\_5" "2\_5" "2\_5" ...

|  |
| --- |
| > str(myasg$id\_act)  chr [1:10299] "2\_5" "2\_5" "2\_5" "2\_5" "2\_5" "2\_5" "2\_5" "2\_5" "2\_5" "2\_5" "2\_5" "2\_5" ...  > str(by\_id\_act)  Classes ‘grouped\_df’, ‘tbl\_df’, ‘tbl’ and 'data.frame': 10299 obs. of 21 variables:  $ id : int 2 2 2 2 2 2 2 2 2 2 ...  $ act : int 5 5 5 5 5 5 5 5 5 5 ...  $ V1 : num 0.257 0.286 0.275 0.27 0.275 ...  $ V2 : num -0.0233 -0.0132 -0.0261 -0.0326 -0.0278 ...  $ V3 : num -0.0147 -0.1191 -0.1182 -0.1175 -0.1295 ...  $ V4 : num -0.938 -0.975 -0.994 -0.995 -0.994 ...  $ V5 : num -0.92 -0.967 -0.97 -0.973 -0.967 ...  $ V6 : num -0.668 -0.945 -0.963 -0.967 -0.978 ...  $ V41 : num 0.936 0.927 0.93 0.929 0.927 ...  $ V42 : num -0.283 -0.289 -0.288 -0.293 -0.303 ...  $ V43 : num 0.115 0.153 0.146 0.143 0.138 ...  $ V44 : num -0.925 -0.989 -0.996 -0.993 -0.996 ...  $ V45 : num -0.937 -0.984 -0.988 -0.97 -0.971 ...  $ V46 : num -0.564 -0.965 -0.982 -0.992 -0.968 ...  $ V121 : num 0.11998 -0.00155 -0.04821 -0.05664 -0.05999 ...  $ V122 : num -0.0918 -0.1873 -0.1663 -0.126 -0.0847 ...  $ V123 : num 0.1896 0.1807 0.1542 0.1183 0.0787 ...  $ V124 : num -0.883 -0.926 -0.973 -0.968 -0.975 ...  $ V125 : num -0.816 -0.93 -0.979 -0.975 -0.978 ...  $ V126 : num -0.941 -0.968 -0.976 -0.963 -0.968 ...  $ id\_act: chr "2\_5" "2\_5" "2\_5" "2\_5" ...  - attr(\*, "vars")=List of 1  ..$ : symbol id\_act  - attr(\*, "drop")= logi TRUE  - attr(\*, "indices")=List of 180  ..$ : int 985 986 987 988 989 990 991 992 993 994 ...  ..$ : int 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 ...  ..$ : int 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 ...  ..$ : int 930 931 932 933 934 935 936 937 938 939 ...  ..$ : int 907 908 909 910 911 912 913 914 915 916 ...  ..$ : int 954 955 956 957 958 959 960 961 962 963 ...  ..$ : int 4928 4929 4930 4931 4932 4933 4934 4935 4936 4937 ...  ..$ : int 4979 4980 4981 4982 4983 4984 4985 4986 4987 4988 ...  ..$ : int 4957 4958 4959 4960 4961 4962 4963 4964 4965 4966 ...  ..$ : int 4872 4873 4874 4875 4876 4877 4878 4879 4880 4881 ...  ..$ : int 4851 4852 4853 4854 4855 4856 4857 4858 4859 4860 ...  ..$ : int 4898 4899 4900 4901 4902 4903 4904 4905 4906 4907 ...  ..$ : int 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 ...  ..$ : int 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 ...  ..$ : int 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 ...  ..$ : int 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 ...  ..$ : int 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 ...  ..$ : int 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 ...  ..$ : int 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 ...  ..$ : int 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 ...  ..$ : int 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 ...  ..$ : int 1548 1549 1550 1551 1552 1553 1554 1555 1556 1557 ...  ..$ : int 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 ...  ..$ : int 1572 1573 1574 1575 1576 1577 1578 1579 1580 1581 ...  ..$ : int 5248 5249 5250 5251 5252 5253 5254 5255 5256 5257 ...  ..$ : int 5302 5303 5304 5305 5306 5307 5308 5309 5310 5311 ...  ..$ : int 5278 5279 5280 5281 5282 5283 5284 5285 5286 5287 ...  ..$ : int 5197 5198 5199 5200 5201 5202 5203 5204 5205 5206 ...  ..$ : int 5167 5168 5169 5170 5171 5172 5173 5174 5175 5176 ...  ..$ : int 5223 5224 5225 5226 5227 5228 5229 5230 5231 5232 ...  ..$ : int 5578 5579 5580 5581 5582 5583 5584 5585 5586 5587 ...  ..$ : int 5627 5628 5629 5630 5631 5632 5633 5634 5635 5636 ...  ..$ : int 5606 5607 5608 5609 5610 5611 5612 5613 5614 5615 ...  ..$ : int 5517 5518 5519 5520 5521 5522 5523 5524 5525 5526 ...  ..$ : int 5490 5491 5492 5493 5494 5495 5496 5497 5498 5499 ...  ..$ : int 5544 5545 5546 5547 5548 5549 5550 5551 5552 5553 ...  ..$ : int 5920 5921 5922 5923 5924 5925 5926 5927 5928 5929 ...  ..$ : int 5970 5971 5972 5973 5974 5975 5976 5977 5978 5979 ...  ..$ : int 5946 5947 5948 5949 5950 5951 5952 5953 5954 5955 ...  ..$ : int 5854 5855 5856 5857 5858 5859 5860 5861 5862 5863 ...  ..$ : int 5818 5819 5820 5821 5822 5823 5824 5825 5826 5827 ...  ..$ : int 5885 5886 5887 5888 5889 5890 5891 5892 5893 5894 ...  ..$ : int 6295 6296 6297 6298 6299 6300 6301 6302 6303 6304 ...  ..$ : int 6335 6336 6337 6338 6339 6340 6341 6342 6351 6352 ...  ..$ : int 6327 6328 6329 6330 6331 6332 6333 6334 6343 6344 ...  ..$ : int 6227 6228 6229 6230 6231 6232 6233 6234 6235 6236 ...  ..$ : int 6184 6185 6186 6187 6188 6189 6190 6191 6192 6193 ...  ..$ : int 6260 6261 6262 6263 6264 6265 6266 6267 6268 6269 ...  ..$ : int 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 ...  ..$ : int 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 ...  ..$ : int 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 ...  ..$ : int 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 ...  ..$ : int 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 ...  ..$ : int 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 ...  ..$ : int 6671 6672 6673 6674 6675 6676 6677 6678 6679 6680 ...  ..$ : int 6712 6713 6714 6715 6716 6717 6718 6719 6720 6721 ...  ..$ : int 6698 6699 6700 6701 6702 6703 6704 6705 6706 6707 ...  ..$ : int 6593 6594 6595 6596 6597 6598 6599 6600 6601 6602 ...  ..$ : int 6552 6553 6554 6555 6556 6557 6558 6559 6560 6561 ...  ..$ : int 6630 6631 6632 6633 6634 6635 6636 6637 6638 6639 ...  ..$ : int 3025 3026 3027 3028 3029 3030 3031 3032 3033 3034 ...  ..$ : int 3097 3098 3099 3100 3101 3102 3103 3104 3105 3106 ...  ..$ : int 3072 3073 3074 3075 3076 3077 3078 3079 3080 3081 ...  ..$ : int 2974 2975 2976 2977 2978 2979 2980 2981 2982 2983 ...  ..$ : int 2947 2948 2949 2950 2951 2952 2953 2954 2955 2956 ...  ..$ : int 2998 2999 3000 3001 3002 3003 3004 3005 3006 3007 ...  ..$ : int 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 ...  ..$ : int 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 ...  ..$ : int 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 ...  ..$ : int 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 ...  ..$ : int 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 ...  ..$ : int 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 ...  ..$ : int 7048 7049 7050 7051 7052 7053 7054 7055 7056 7057 ...  ..$ : int 7090 7091 7092 7093 7094 7095 7096 7097 7098 7099 ...  ..$ : int 7075 7076 7077 7078 7079 7080 7081 7082 7083 7084 ...  ..$ : int 6957 6958 6959 6960 6961 6962 6963 6964 6965 6966 ...  ..$ : int 6912 6913 6914 6915 6916 6917 6918 6919 6920 6921 ...  ..$ : int 7004 7005 7006 7007 7008 7009 7010 7011 7012 7013 ...  ..$ : int 7419 7420 7421 7422 7423 7424 7425 7426 7427 7428 ...  ..$ : int 7454 7455 7456 7457 7458 7459 7460 7461 7462 7463 ...  ..$ : int 7442 7443 7444 7445 7446 7447 7448 7449 7450 7451 ...  ..$ : int 7350 7351 7352 7353 7354 7355 7356 7357 7358 7359 ...  ..$ : int 7320 7321 7322 7323 7324 7325 7326 7327 7328 7329 ...  ..$ : int 7382 7383 7384 7385 7386 7387 7388 7389 7390 7391 ...  ..$ : int 7745 7746 7747 7748 7749 7750 7751 7752 7753 7754 ...  ..$ : int 7784 7785 7786 7787 7788 7789 7790 7791 7792 7802 ...  ..$ : int 7775 7776 7777 7778 7779 7780 7781 7782 7783 7793 ...  ..$ : int 7674 7675 7676 7677 7678 7679 7680 7681 7682 7683 ...  ..$ : int 7641 7642 7643 7644 7645 7646 7647 7648 7649 7650 ...  ..$ : int 7712 7713 7714 7715 7716 7717 7718 7719 7720 7721 ...  ..$ : int 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 ...  ..$ : int 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 ...  ..$ : int 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 ...  ..$ : int 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 ...  ..$ : int 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 ...  ..$ : int 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 ...  ..$ : int 8117 8118 8119 8120 8121 8122 8123 8124 8125 8126 ...  ..$ : int 8183 8184 8185 8186 8187 8188 8189 8190 8191 8192 ...  ..$ : int 8153 8154 8155 8156 8157 8158 8159 8160 8161 8162 ...  .. [list output truncated]  - attr(\*, "group\_sizes")= int 53 47 38 54 44 58 59 54 46 53 ...  - attr(\*, "biggest\_group\_size")= int 95  - attr(\*, "labels")='data.frame': 180 obs. of 1 variable:  ..$ id\_act: chr "10\_1" "10\_2" "10\_3" "10\_4" ...  ..- attr(\*, "vars")=List of 1  .. ..$ : symbol id\_act  > myavg <- summarize(by\_id\_act, id = mean(id), act = mean(act), ax.av= mean(V1), ay.av = mean(V2), az.av=mean(V3), ax.sd =mean(V4), ay.sd=mean(V5), az.sd = mean(V6), gx.av= mean(V41), gy.av = mean(V42), gz.av=mean(V43), gx.sd =mean(V44), gy.sd=mean(V45), gz.sd = mean(V46),rx.av= mean(V121), ry.av = mean(V122), rz.av=mean(V123), rx.sd =mean(V124), ry.sd=mean(V125), rz.sd = mean(V126) )  > str(myavg)  Classes ‘tbl\_df’, ‘tbl’ and 'data.frame': 180 obs. of 21 variables:  $ id\_act: chr "10\_1" "10\_2" "10\_3" "10\_4" ...  $ id : num 10 10 10 10 10 10 11 11 11 11 ...  $ act : num 1 2 3 4 5 6 1 2 3 4 ...  $ ax.av : num 0.279 0.267 0.29 0.271 0.277 ...  $ ay.av : num -0.017 -0.0144 -0.02 -0.015 -0.0155 ...  $ az.av : num -0.109 -0.118 -0.111 -0.104 -0.108 ...  $ ax.sd : num -0.179 -0.162 0.296 -0.983 -0.978 ...  $ ay.sd : num -0.02274 -0.00555 0.00408 -0.91798 -0.91956 ...  $ az.sd : num -0.3956 -0.0739 -0.1836 -0.9678 -0.9413 ...  $ gx.av : num 0.963 0.932 0.94 0.792 0.954 ...  $ gy.av : num -0.0838 -0.0566 -0.0646 -0.0413 -0.0432 ...  $ gz.av : num 0.0549 0.0228 0.0419 0.2025 0.0347 ...  $ gx.sd : num -0.974 -0.959 -0.939 -0.973 -0.991 ...  $ gy.sd : num -0.971 -0.937 -0.937 -0.936 -0.975 ...  $ gz.sd : num -0.958 -0.865 -0.902 -0.967 -0.96 ...  $ rx.av : num 0.0107 0.0733 -0.1248 -0.0432 -0.0282 ...  $ ry.av : num -0.082 -0.0955 -0.1067 -0.068 -0.0877 ...  $ rz.av : num 0.0987 0.088 0.0724 0.0746 0.1033 ...  $ rx.sd : num -0.414 -0.309 -0.305 -0.989 -0.93 ...  $ ry.sd : num -0.2509 0.0412 -0.3114 -0.9844 -0.9589 ...  $ rz.sd : num -0.1745 -0.3205 -0.0353 -0.9604 -0.9537 ...  - attr(\*, "drop")= logi TRUE  > head(myavg)  Source: local data frame [6 x 21]  id\_act id act ax.av ay.av az.av ax.sd ay.sd az.sd gx.av gy.av  1 10\_1 10 1 0.2785741 -0.01702235 -0.1090575 -0.1787097 -0.022743165 -0.39564507 0.9630921 -0.08382770  2 10\_2 10 2 0.2671219 -0.01438549 -0.1181804 -0.1615919 -0.005552877 -0.07387449 0.9318610 -0.05656703  3 10\_3 10 3 0.2904016 -0.02000508 -0.1108486 0.2957335 0.004079154 -0.18355756 0.9398074 -0.06461608  4 10\_4 10 4 0.2706121 -0.01504268 -0.1042532 -0.9829018 -0.917979530 -0.96782698 0.7918872 -0.04126077  5 10\_5 10 5 0.2766503 -0.01554186 -0.1079641 -0.9784035 -0.919561843 -0.94127144 0.9540088 -0.04315978  6 10\_6 10 6 0.2802306 -0.02429448 -0.1171686 -0.9682837 -0.946454302 -0.95947149 -0.4530697 -0.13929768  Variables not shown: gz.av (dbl), gx.sd (dbl), gy.sd (dbl), gz.sd (dbl), rx.av (dbl), ry.av (dbl), rz.av (dbl),  rx.sd (dbl), ry.sd (dbl), rz.sd (dbl)  > tail(myavg)  Source: local data frame [6 x 21]  id\_act id act ax.av ay.av az.av ax.sd ay.sd az.sd gx.av gy.av  1 9\_1 9 1 0.2785028 -0.01808920 -0.11082051 -0.2383536 -0.2016970 -0.05796365 0.9518671 -0.03143417  2 9\_2 9 2 0.2624365 -0.01951011 -0.12521900 -0.3614444 -0.3022062 -0.25343408 0.9026478 -0.03779478  3 9\_3 9 3 0.2959234 -0.02039943 -0.09102788 0.2133923 -0.2083107 -0.00771530 0.9384178 -0.03523046  4 9\_4 9 4 0.2483267 -0.02701678 -0.07537847 -0.9572278 -0.8751414 -0.83200187 0.9163245 -0.04142582  5 9\_5 9 5 0.2823101 -0.02004550 -0.09527475 -0.9757413 -0.9386358 -0.91929581 0.9613235 -0.01038382  6 9\_6 9 6 0.2591955 -0.02052682 -0.10754972 -0.9423331 -0.9162928 -0.94070729 -0.5802528 -0.11915420  Variables not shown: gz.av (dbl), gx.sd (dbl), gy.sd (dbl), gz.sd (dbl), rx.av (dbl), ry.av (dbl), rz.av (dbl),  rx.sd (dbl), ry.sd (dbl), rz.sd (dbl)  > myavg$act  [1] 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1  [56] 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2  [111] 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3  [166] 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6  > myavg [, 3]<- gsub ("1", "WALK", myavg$act)  > myavg$act  [1] "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3"  [16] "4" "5" "6" "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3" "4" "5" "6"  [31] "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3"  [46] "4" "5" "6" "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3" "4" "5" "6"  [61] "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3"  [76] "4" "5" "6" "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3" "4" "5" "6"  [91] "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3"  [106] "4" "5" "6" "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3" "4" "5" "6"  [121] "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3"  [136] "4" "5" "6" "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3" "4" "5" "6"  [151] "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3"  [166] "4" "5" "6" "WALK" "2" "3" "4" "5" "6" "WALK" "2" "3" "4" "5" "6"  > myavg [, 3]<- gsub ("2", "GO\_UP", myavg$act)  > myavg [, 3]<- gsub ("3", "GO\_DOWN", myavg$act)  > myavg [, 3]<- gsub ("4", "SIT", myavg$act)  > myavg [, 3]<- gsub ("5", "STAND", myavg$act)  > myavg [, 3]<- gsub ("6", "SUPINE", myavg$act)  > myavg$act  [1] "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND"  [12] "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT"  [23] "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN"  [34] "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP"  [45] "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK"  [56] "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE"  [67] "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND"  [78] "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT"  [89] "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN"  [100] "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP"  [111] "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK"  [122] "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE"  [133] "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND"  [144] "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT"  [155] "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN"  [166] "SIT" "STAND" "SUPINE" "WALK" "GO\_UP" "GO\_DOWN" "SIT" "STAND" "SUPINE" "WALK" "GO\_UP"  [177] "GO\_DOWN" "SIT" "STAND" "SUPINE"  > str(myavg)  Classes ‘tbl\_df’, ‘tbl’ and 'data.frame': 180 obs. of 21 variables:  $ id\_act: chr "10\_1" "10\_2" "10\_3" "10\_4" ...  $ id : num 10 10 10 10 10 10 11 11 11 11 ...  $ act : chr "WALK" "GO\_UP" "GO\_DOWN" "SIT" ...  $ ax.av : num 0.279 0.267 0.29 0.271 0.277 ...  $ ay.av : num -0.017 -0.0144 -0.02 -0.015 -0.0155 ...  $ az.av : num -0.109 -0.118 -0.111 -0.104 -0.108 ...  $ ax.sd : num -0.179 -0.162 0.296 -0.983 -0.978 ...  $ ay.sd : num -0.02274 -0.00555 0.00408 -0.91798 -0.91956 ...  $ az.sd : num -0.3956 -0.0739 -0.1836 -0.9678 -0.9413 ...  $ gx.av : num 0.963 0.932 0.94 0.792 0.954 ...  $ gy.av : num -0.0838 -0.0566 -0.0646 -0.0413 -0.0432 ...  $ gz.av : num 0.0549 0.0228 0.0419 0.2025 0.0347 ...  $ gx.sd : num -0.974 -0.959 -0.939 -0.973 -0.991 ...  $ gy.sd : num -0.971 -0.937 -0.937 -0.936 -0.975 ...  $ gz.sd : num -0.958 -0.865 -0.902 -0.967 -0.96 ...  $ rx.av : num 0.0107 0.0733 -0.1248 -0.0432 -0.0282 ...  $ ry.av : num -0.082 -0.0955 -0.1067 -0.068 -0.0877 ...  $ rz.av : num 0.0987 0.088 0.0724 0.0746 0.1033 ...  $ rx.sd : num -0.414 -0.309 -0.305 -0.989 -0.93 ...  $ ry.sd : num -0.2509 0.0412 -0.3114 -0.9844 -0.9589 ...  $ rz.sd : num -0.1745 -0.3205 -0.0353 -0.9604 -0.9537 ...  - attr(\*, "drop")= logi TRUE  > myavg <- myavg[, -1]  > str(myavg)  Classes ‘tbl\_df’ and 'data.frame': 180 obs. of 20 variables:  $ id : num 10 10 10 10 10 10 11 11 11 11 ...  $ act : chr "WALK" "GO\_UP" "GO\_DOWN" "SIT" ...  $ ax.av: num 0.279 0.267 0.29 0.271 0.277 ...  $ ay.av: num -0.017 -0.0144 -0.02 -0.015 -0.0155 ...  $ az.av: num -0.109 -0.118 -0.111 -0.104 -0.108 ...  $ ax.sd: num -0.179 -0.162 0.296 -0.983 -0.978 ...  $ ay.sd: num -0.02274 -0.00555 0.00408 -0.91798 -0.91956 ...  $ az.sd: num -0.3956 -0.0739 -0.1836 -0.9678 -0.9413 ...  $ gx.av: num 0.963 0.932 0.94 0.792 0.954 ...  $ gy.av: num -0.0838 -0.0566 -0.0646 -0.0413 -0.0432 ...  $ gz.av: num 0.0549 0.0228 0.0419 0.2025 0.0347 ...  $ gx.sd: num -0.974 -0.959 -0.939 -0.973 -0.991 ...  $ gy.sd: num -0.971 -0.937 -0.937 -0.936 -0.975 ...  $ gz.sd: num -0.958 -0.865 -0.902 -0.967 -0.96 ...  $ rx.av: num 0.0107 0.0733 -0.1248 -0.0432 -0.0282 ...  $ ry.av: num -0.082 -0.0955 -0.1067 -0.068 -0.0877 ...  $ rz.av: num 0.0987 0.088 0.0724 0.0746 0.1033 ...  $ rx.sd: num -0.414 -0.309 -0.305 -0.989 -0.93 ...  $ ry.sd: num -0.2509 0.0412 -0.3114 -0.9844 -0.9589 ...  $ rz.sd: num -0.1745 -0.3205 -0.0353 -0.9604 -0.9537 ...  # complete path is not given in the fnamae below. Yours will be similar  > fname <- "C:/Users/……../CleanData/Project/getdata\_projectfiles\_UCI HAR Dataset/tidydata.txt"  > write.table (myavg, sep=" \t", file= fname, row.names=FALSE, col.names=TRUE) |
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