week 6 assignment

Ajay

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## R Markdown

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When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

#Exercises #1. Load the tissue\_gene\_expression dataset. Remove the row means and compute the distance between each observation. Store the result in d.

# Install and load dslabs if needed  
# Only run this once  
library(dslabs)

# Load the tissue\_gene\_expression dataset  
data("tissue\_gene\_expression")  
  
# View the structure  
str(tissue\_gene\_expression)

## List of 2  
## $ x: num [1:189, 1:500] 9.83 9.63 9.69 9.99 9.58 ...  
## ..- attr(\*, "dimnames")=List of 2  
## .. ..$ : chr [1:189] "cerebellum\_1" "cerebellum\_2" "cerebellum\_3" "cerebellum\_4" ...  
## .. ..$ : chr [1:500] "MAML1" "LHPP" "SEPT10" "B3GNT4" ...  
## $ y: Factor w/ 7 levels "cerebellum","colon",..: 1 1 1 1 1 1 1 1 1 1 ...

# Step 1: Access the data matrix  
x <- tissue\_gene\_expression$x  
  
# Step 2: Center each row by subtracting its mean  
# This removes overall expression level differences per sample  
x\_centered <- sweep(x, 1, rowMeans(x))  
  
# Step 3: Compute the Euclidean distances between samples (rows)  
d <- dist(x\_centered)  
  
# Optional: check structure or preview  
print(d)

## cerebellum\_1 cerebellum\_2 cerebellum\_3 cerebellum\_4 cerebellum\_5  
## cerebellum\_2 6.980073   
## cerebellum\_3 6.633291 7.020532   
## cerebellum\_4 7.329478 6.657902 5.317597   
## cerebellum\_5 5.183018 6.312977 5.931987 6.724742   
## cerebellum\_6 6.312736 6.575740 5.075224 5.733852 5.862093  
## cerebellum\_7 6.567394 7.582953 4.345565 5.692054 6.310367  
## cerebellum\_8 5.795187 5.691057 6.247889 5.958780 4.887513  
## cerebellum\_9 6.645861 7.874016 7.018950 6.275945 6.383420  
## cerebellum\_10 8.825768 6.966380 9.237860 7.260257 8.173854  
## cerebellum\_11 6.188056 5.834936 5.046478 5.119201 5.124192  
## cerebellum\_12 6.688398 6.579192 5.240755 4.964383 5.873839  
## cerebellum\_13 7.052292 6.080595 6.930583 7.590023 6.571236  
## cerebellum\_14 7.646367 7.196867 7.300831 6.266583 6.521053  
## cerebellum\_15 7.464459 6.405254 5.750411 5.151552 6.710440  
## cerebellum\_16 6.653558 6.388298 5.497765 6.578843 5.984077  
## cerebellum\_17 6.024153 5.378581 5.317963 5.413858 5.520566  
## cerebellum\_18 8.135522 7.623315 5.353830 5.269966 7.186349  
## cerebellum\_19 6.580962 5.915650 6.621135 6.299997 5.972713  
## cerebellum\_20 7.502541 7.160446 6.584799 6.859317 6.879036  
## cerebellum\_21 8.312976 5.634393 8.025126 7.275008 7.156336  
## cerebellum\_22 6.825882 6.426205 6.084295 6.117044 6.407903  
## cerebellum\_23 7.402175 5.575708 7.363770 7.796209 6.105504  
## cerebellum\_24 7.671153 6.398195 5.564413 5.114028 6.786767  
## cerebellum\_25 8.304761 5.677430 8.193019 7.194103 7.296376  
## cerebellum\_26 7.297065 5.576614 5.717259 5.537190 5.825635  
## cerebellum\_27 6.982057 6.083520 5.639543 5.046530 6.090321  
## cerebellum\_28 11.488694 9.536537 12.361042 11.888675 11.097104  
## cerebellum\_29 17.307670 16.090987 19.663895 20.061173 17.560722  
## cerebellum\_30 18.005251 16.738672 20.376689 20.802143 18.238675  
## cerebellum\_31 18.410640 18.586561 18.988854 19.099295 18.890712  
## cerebellum\_32 17.457948 17.171488 17.022699 17.011248 17.242218  
## cerebellum\_33 20.019657 19.748683 19.233885 18.918087 19.955941  
## cerebellum\_34 18.805364 18.987532 18.831326 18.756912 19.052172  
## cerebellum\_35 18.111951 18.469933 18.649775 18.673475 18.454807  
## cerebellum\_36 9.890099 9.575701 7.591756 7.692562 9.320298  
## cerebellum\_37 14.535279 14.337621 13.500500 12.796731 14.051606  
## cerebellum\_38 11.478119 12.054444 8.853712 9.357286 10.875220  
## colon\_1 22.682137 22.384272 23.940430 24.487838 22.689009  
## colon\_2 22.693371 22.069467 23.827467 24.305571 22.728156  
## colon\_3 23.115681 23.032712 24.265687 24.989452 23.128458  
## colon\_4 23.958967 22.736568 24.828124 25.041843 23.637917  
## colon\_5 22.722576 22.721056 24.262854 24.535218 22.947944  
## colon\_6 22.529924 21.712810 23.865512 24.051874 22.445222  
## colon\_7 22.221675 21.219981 23.142345 23.364342 21.941320  
## colon\_8 22.655303 21.317615 23.492127 23.603063 22.159171  
## colon\_9 22.527645 21.315913 23.630271 23.763467 22.191753  
## colon\_10 23.930788 23.071092 24.643785 24.771201 23.431511  
## colon\_11 24.309885 23.232082 24.911297 25.251566 23.744759  
## colon\_12 22.438164 21.423397 23.467072 23.486647 22.320959  
## colon\_13 22.693934 21.576880 23.617433 23.683736 22.277552  
## colon\_14 21.760845 20.680441 23.332365 23.410688 21.439184  
## colon\_15 21.326384 20.880880 22.828464 23.334835 21.292448  
## colon\_16 22.089648 21.149856 23.073348 23.087062 21.736689  
## colon\_17 22.916081 22.042244 23.756499 23.923903 22.526051  
## colon\_18 23.026268 22.167465 24.119787 23.859197 22.587550  
## colon\_19 22.807195 21.716864 23.576874 23.622741 22.320788  
## colon\_20 21.181420 20.455107 23.487718 23.343242 21.256821  
## colon\_21 22.363578 21.241242 22.981585 23.262137 21.954198  
## colon\_22 22.086598 21.948398 23.787369 23.619275 22.145664  
## colon\_23 22.455988 21.169607 23.450330 23.558692 22.191571  
## colon\_24 23.182370 22.865210 24.198035 24.840552 23.172877  
## colon\_25 21.139298 20.211655 22.714429 23.046105 21.049414  
## colon\_26 23.007807 22.150206 24.183431 24.252792 22.705918  
## colon\_27 22.446434 22.377523 23.738650 24.169690 22.503365  
## colon\_28 22.422634 21.776341 23.731530 24.016255 22.315209  
## colon\_29 22.844319 21.508512 23.779458 23.933909 22.410610  
## colon\_30 23.323037 22.260717 24.371234 24.549555 23.091397  
## colon\_31 22.659454 21.723732 23.536502 23.902462 22.484362  
## colon\_32 22.186842 21.026187 23.601101 23.454049 21.900585  
## colon\_33 22.484080 21.500450 23.793538 23.808012 22.351683  
## colon\_34 22.335325 21.227260 23.618417 23.520799 22.043559  
## endometrium\_1 21.067854 20.855762 22.681798 22.773003 21.372486  
## endometrium\_2 21.768748 20.674437 22.521743 22.322569 21.989442  
## endometrium\_3 21.862771 21.823430 23.186473 23.210181 21.966992  
## endometrium\_4 21.521767 21.340928 23.173763 23.331441 21.839917  
## endometrium\_5 22.450675 22.002362 23.668321 23.711241 22.435173  
## endometrium\_6 21.499532 21.104425 22.678019 22.521668 21.698306  
## endometrium\_7 21.858070 21.049671 22.818103 22.692693 21.796633  
## endometrium\_8 19.940740 19.951119 21.869979 21.930631 20.316542  
## endometrium\_9 22.595854 22.012820 23.445388 23.427471 22.664645  
## endometrium\_10 22.808093 21.831718 23.480730 23.202656 22.748893  
## endometrium\_11 21.337986 20.022311 22.319680 22.296570 21.118864  
## endometrium\_12 22.854850 21.653646 23.318329 23.059653 22.640539  
## endometrium\_13 21.774094 21.053828 22.844056 22.710854 21.788383  
## endometrium\_14 23.018307 22.709010 24.145924 24.250726 23.329106  
## endometrium\_15 22.993928 22.569142 24.148710 24.204644 23.181210  
## hippocampus\_1 16.534157 16.242949 17.871796 17.036298 16.649093  
## hippocampus\_2 15.308838 14.851623 16.459641 15.532551 15.075208  
## hippocampus\_3 18.430421 17.085494 20.421130 19.561706 18.532336  
## hippocampus\_4 16.470228 16.166726 16.678774 16.002486 16.097385  
## hippocampus\_5 19.013785 18.016021 21.160925 20.309192 19.245898  
## hippocampus\_6 15.978299 15.441164 16.962393 16.332570 15.780092  
## hippocampus\_7 16.730646 16.070463 18.287504 17.283367 16.964990  
## hippocampus\_8 15.415776 14.589330 15.838877 14.901535 15.276849  
## hippocampus\_9 17.210030 16.601359 18.722395 17.700917 17.316550  
## hippocampus\_10 17.480820 16.751527 19.164435 18.371150 17.611738  
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## hippocampus\_12 15.930929 15.524724 15.406925 15.217823 15.563571  
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## hippocampus\_14 16.420292 15.959744 16.590883 15.517012 16.094729  
## hippocampus\_15 14.727912 14.736063 14.138104 13.891931 14.539821  
## hippocampus\_16 16.282521 16.268883 17.161099 16.312214 16.453294  
## hippocampus\_17 15.423758 15.141118 15.773082 15.205241 15.350096  
## hippocampus\_18 14.949847 14.664551 14.485237 14.332739 14.555632  
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## hippocampus\_20 16.240539 16.038652 16.929974 15.949410 16.313593  
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## hippocampus\_22 15.937335 15.962204 16.189241 15.368868 15.991710  
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## hippocampus\_24 16.151253 16.069450 16.798039 15.836776 16.354205  
## hippocampus\_25 16.017900 15.618943 16.464893 15.420813 16.031478  
## hippocampus\_26 16.051566 16.083109 15.948191 15.819850 16.044425  
## hippocampus\_27 16.690279 16.599735 17.791889 17.172070 17.074448  
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## hippocampus\_31 13.735745 13.413516 13.991306 14.204269 13.183970  
## kidney\_1 23.974310 23.861233 24.584502 24.510639 24.106994  
## kidney\_2 24.577622 24.242195 25.365085 25.059694 24.703211  
## kidney\_3 23.635817 23.651564 24.639090 24.712220 23.927522  
## kidney\_4 24.062525 23.538043 25.373798 25.481904 24.301807  
## kidney\_5 24.461524 24.263484 25.386032 25.561651 24.581459  
## kidney\_6 22.867188 22.895912 24.107130 24.043330 23.073082  
## kidney\_7 23.437080 22.681810 24.928126 24.883962 23.772265  
## kidney\_8 23.607368 23.553394 24.632470 24.763629 23.866166  
## kidney\_9 24.426708 24.334013 25.589882 25.589352 24.746016  
## kidney\_10 23.930830 23.795468 24.756021 24.942150 24.038289  
## kidney\_11 23.745450 23.516153 24.961841 25.100632 24.084034  
## kidney\_12 22.478274 22.544089 23.749788 23.889657 22.770209  
## kidney\_13 24.909968 24.664660 25.821103 25.804571 24.898976  
## kidney\_14 23.867384 23.945113 24.747270 24.985235 24.013500  
## kidney\_15 23.624181 23.501312 24.891297 24.969545 23.820368  
## kidney\_16 23.781523 23.754145 24.553809 24.796083 23.892210  
## kidney\_17 24.046779 24.102749 24.844611 24.596299 24.123276  
## kidney\_18 25.477044 25.727340 26.000283 25.979462 25.643151  
## kidney\_19 24.966072 25.167690 25.971645 25.828073 25.130442  
## kidney\_20 21.505451 21.572963 22.455540 22.254231 21.532742  
## kidney\_21 23.660367 24.035058 24.799526 24.706834 24.000237  
## kidney\_22 25.550992 25.865416 26.235693 26.247234 25.624490  
## kidney\_23 25.351933 25.627316 25.838000 25.774309 25.408569  
## kidney\_24 24.145497 24.423545 25.063289 25.284324 24.354051  
## kidney\_25 23.220068 23.568761 24.096397 24.211535 23.394063  
## kidney\_26 25.505485 25.553640 26.086523 26.152506 25.465954  
## kidney\_27 26.447998 26.298900 26.816924 26.807372 26.267553  
## kidney\_28 24.759658 25.074759 25.988311 25.948503 25.146687  
## kidney\_29 22.913161 23.154291 24.492648 24.537648 23.359763  
## kidney\_30 19.464272 19.351245 21.025215 21.215065 19.660881  
## kidney\_31 19.228902 19.240466 20.919306 21.085966 19.562062  
## kidney\_32 19.177331 18.850359 21.649601 21.954838 19.670793  
## kidney\_33 20.886690 20.739656 21.896512 21.852221 20.933429  
## kidney\_34 20.764428 20.593671 21.764349 21.764178 20.848512  
## kidney\_35 20.979943 20.928643 21.838450 21.805523 21.038604  
## kidney\_36 18.809625 18.646893 20.780767 20.956232 19.212618  
## kidney\_37 21.513800 21.725640 23.158760 23.825027 21.783499  
## kidney\_38 23.371864 22.967828 26.195358 26.403597 24.010724  
## kidney\_39 22.571336 22.301145 25.238111 25.377020 23.191013  
## liver\_1 25.525635 25.194957 27.223115 27.668020 26.110216  
## liver\_2 25.690097 25.203185 27.583600 27.965487 26.362959  
## liver\_3 25.678203 25.210619 27.458601 27.897547 26.307972  
## liver\_4 27.965876 27.749289 28.939080 29.248355 28.450624  
## liver\_5 28.389768 27.966912 29.819562 30.170220 29.073294  
## liver\_6 28.319323 28.197452 29.287367 29.580343 28.845866  
## liver\_7 26.522122 25.581098 27.880594 28.274524 26.729954  
## liver\_8 28.624811 27.809553 29.061353 28.799753 28.793125  
## liver\_9 26.615682 25.772309 27.528688 27.561050 26.874178  
## liver\_10 27.609880 26.797962 28.177165 28.106859 27.734795  
## liver\_11 26.386644 25.474726 27.760763 27.844520 26.897588  
## liver\_12 27.969427 27.045273 29.243611 29.023246 28.519244  
## liver\_13 28.295871 27.379039 30.838091 30.813663 29.005276  
## liver\_14 29.011939 27.944333 31.326828 31.320036 29.659833  
## liver\_15 29.108195 28.446540 30.504138 30.427087 29.742168  
## liver\_16 29.574775 28.760325 30.681182 30.576322 30.018193  
## liver\_17 28.613451 27.749838 29.909744 29.739859 29.158071  
## liver\_18 30.165935 29.564737 31.060748 30.906985 30.625033  
## liver\_19 29.108195 28.446540 30.504138 30.427087 29.742168  
## liver\_20 28.613451 27.749838 29.909744 29.739859 29.158071  
## liver\_21 30.165935 29.564737 31.060748 30.906985 30.625033  
## liver\_22 29.574775 28.760325 30.681182 30.576322 30.018193  
## liver\_23 29.104797 28.549200 30.462877 30.395307 29.651927  
## liver\_24 28.965012 28.210643 30.003371 29.900790 29.379144  
## liver\_25 29.037278 28.302738 30.468317 30.357690 29.541952  
## liver\_26 30.582607 30.024934 31.804179 31.792995 31.077048  
## placenta\_1 27.131527 26.658043 26.841569 27.288830 26.783439  
## placenta\_2 26.075557 25.245590 25.686788 26.157949 25.494914  
## placenta\_3 25.239683 24.411323 25.496321 25.841814 24.939863  
## placenta\_4 26.102065 24.875689 26.353022 26.284567 25.785717  
## placenta\_5 26.397626 25.105150 27.044561 26.924350 26.345168  
## placenta\_6 26.833014 25.574564 27.491430 27.417358 26.776036  
## cerebellum\_6 cerebellum\_7 cerebellum\_8 cerebellum\_9  
## cerebellum\_2   
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## cerebellum\_6   
## cerebellum\_7 5.292774   
## cerebellum\_8 6.135935 6.871633   
## cerebellum\_9 6.810576 6.834217 5.912655   
## cerebellum\_10 8.534581 9.527917 7.500872 8.249573  
## cerebellum\_11 5.204596 5.384772 5.253498 5.631922  
## cerebellum\_12 5.486831 5.971034 5.664285 5.900626  
## cerebellum\_13 6.816676 7.458698 6.495388 8.352478  
## cerebellum\_14 7.401265 7.398293 5.961828 5.027581  
## cerebellum\_15 6.213870 5.957103 6.426481 7.633817  
## cerebellum\_16 5.977126 5.680426 5.719460 7.010033  
## cerebellum\_17 5.447245 5.231158 5.229008 6.600103  
## cerebellum\_18 6.489208 5.366393 6.879231 7.348807  
## cerebellum\_19 6.872883 6.485048 5.138090 6.434343  
## cerebellum\_20 7.257914 6.590142 6.689298 7.543020  
## cerebellum\_21 7.037856 8.573762 6.201405 7.856362  
## cerebellum\_22 6.232261 6.360923 6.272035 6.617524  
## cerebellum\_23 6.857818 7.782718 5.779194 8.107693  
## cerebellum\_24 6.064213 5.577980 6.147372 7.410417  
## cerebellum\_25 7.513724 8.439543 6.555937 8.577094  
## cerebellum\_26 5.844634 6.669590 5.406746 6.872203  
## cerebellum\_27 6.222673 5.958333 5.447525 6.497094  
## cerebellum\_28 11.631759 12.796192 10.619192 11.697860  
## cerebellum\_29 18.276862 19.908637 17.413268 19.323490  
## cerebellum\_30 18.787739 20.622949 18.230666 20.043213  
## cerebellum\_31 18.781461 19.500638 18.118173 17.711920  
## cerebellum\_32 17.238176 17.488472 16.470797 15.547783  
## cerebellum\_33 19.706074 19.597464 19.032392 18.231558  
## cerebellum\_34 19.189717 19.167711 18.330271 17.479127  
## cerebellum\_35 18.573567 19.175929 17.764877 17.086314  
## cerebellum\_36 8.728528 8.347368 8.786284 7.949584  
## cerebellum\_37 14.094007 13.932633 13.146728 12.054360  
## cerebellum\_38 10.626556 8.991250 10.515122 8.923438  
## colon\_1 23.035455 23.903289 22.874597 23.382208  
## colon\_2 22.934315 23.853400 22.815344 23.381448  
## colon\_3 23.551308 24.464418 23.182052 23.488185  
## colon\_4 23.903254 24.900310 23.475464 24.103553  
## colon\_5 23.430326 24.255257 22.880596 23.226800  
## colon\_6 22.728898 23.816775 22.635724 23.195605  
## colon\_7 22.227665 23.190572 22.058638 22.624798  
## colon\_8 22.538570 23.363833 22.239535 22.993796  
## colon\_9 22.449206 23.486320 22.415884 23.152119  
## colon\_10 24.052209 24.656642 23.398006 23.883982  
## colon\_11 24.108868 24.964007 23.930071 24.534169  
## colon\_12 22.566728 23.457200 22.140910 22.936413  
## colon\_13 22.697226 23.626520 22.358716 23.034690  
## colon\_14 22.056779 23.207318 21.681437 22.830110  
## colon\_15 21.671158 22.785998 21.573222 22.060197  
## colon\_16 22.125349 23.051092 21.705541 22.260559  
## colon\_17 23.057822 23.725993 22.471940 23.262572  
## colon\_18 23.087445 23.945818 22.740647 23.310827  
## colon\_19 22.786933 23.415787 22.599880 23.081090  
## colon\_20 22.131701 23.417770 21.368405 22.257810  
## colon\_21 22.312345 23.031533 22.102136 22.620126  
## colon\_22 22.745726 23.579872 22.403258 22.573660  
## colon\_23 22.507688 23.463102 22.195748 22.986999  
## colon\_24 23.618536 24.330572 23.244572 23.876237  
## colon\_25 21.755377 22.604703 21.226716 22.110536  
## colon\_26 23.177686 24.067188 22.989569 23.560228  
## colon\_27 22.885821 23.696379 22.607205 22.896224  
## colon\_28 22.873345 23.707811 22.418390 23.120948  
## colon\_29 22.850270 23.730227 22.611806 23.473465  
## colon\_30 23.557861 24.409664 23.159267 23.945155  
## colon\_31 22.562947 23.488113 22.550036 23.116225  
## colon\_32 22.447555 23.514198 22.002306 22.954736  
## colon\_33 22.772792 23.634580 22.389897 23.167786  
## colon\_34 22.337515 23.443232 22.107056 22.931947  
## endometrium\_1 21.904287 22.732706 20.999755 21.230300  
## endometrium\_2 21.865535 22.415378 21.340976 21.789603  
## endometrium\_3 22.353496 23.045367 21.635490 21.898974  
## endometrium\_4 22.125186 23.247274 21.527118 21.911620  
## endometrium\_5 22.862943 23.552766 22.137468 22.462885  
## endometrium\_6 21.918752 22.631263 21.315462 21.391806  
## endometrium\_7 22.046592 22.707068 21.412844 22.098123  
## endometrium\_8 20.781127 21.738779 19.916072 20.387241  
## endometrium\_9 22.779858 23.508373 22.400996 22.639892  
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## liver\_21 9.259343 7.259854 9.696569 0.000000 9.259343 9.696569  
## liver\_22 7.950458 0.000000 8.271472 7.259854 7.950458 8.271472  
## liver\_23 9.556702 9.502508 11.090055 9.665813 9.556702 11.090055  
## liver\_24 9.705299 8.616183 10.933566 8.171629 9.705299 10.933566  
## liver\_25 10.654883 10.156191 12.178693 11.263587 10.654883 12.178693  
## liver\_26 10.396508 10.023471 11.919783 10.237623 10.396508 11.919783  
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## placenta\_2 28.657399 28.839780 28.086533 28.800408 28.657399 28.086533  
## placenta\_3 25.935646 26.280107 25.273499 26.418017 25.935646 25.273499  
## placenta\_4 24.731096 25.481998 24.483437 25.503271 24.731096 24.483437  
## placenta\_5 23.839561 24.570039 23.242396 24.875957 23.839561 23.242396  
## placenta\_6 24.028798 24.768464 23.689312 25.018955 24.028798 23.689312  
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## liver\_25 11.263587 10.156191 8.021971 8.230200   
## liver\_26 10.237623 10.023471 7.464173 7.896784 8.249339   
## placenta\_1 28.743101 29.086898 29.223081 28.514286 29.940496 30.528446  
## placenta\_2 28.800408 28.839780 28.911384 28.359436 29.402546 30.277370  
## placenta\_3 26.418017 26.280107 26.791809 26.092518 27.275186 27.940966  
## placenta\_4 25.503271 25.481998 26.257563 25.128787 26.609979 27.036066  
## placenta\_5 24.875957 24.570039 25.420588 24.352106 25.353459 26.187002  
## placenta\_6 25.018955 24.768464 25.882015 24.623814 25.664775 26.618325  
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## placenta\_1   
## placenta\_2 7.512127   
## placenta\_3 10.913944 12.163450   
## placenta\_4 14.949086 16.268971 10.708693   
## placenta\_5 18.146225 19.079367 13.152296 9.121741   
## placenta\_6 18.448099 19.905299 12.921821 9.517513 8.822184

#2. Make a hierarchical clustering plot and add the tissue types as labels.

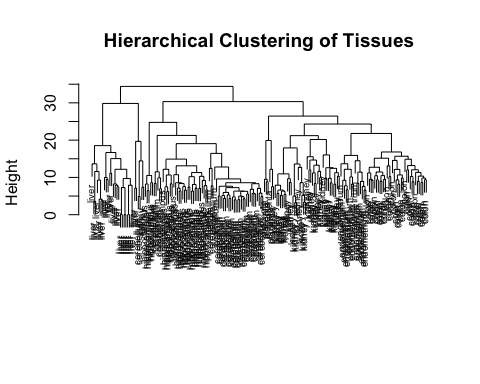
# Load required packages  
library(dslabs) # for tissue\_gene\_expression  
library(dplyr) # for data manipulation

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

library(ggplot2) # for plotting   
  
# Step 1: Perform hierarchical clustering using the distance matrix  
hc <- hclust(d)  
  
# Step 2: Convert tissue types to character vector (for labeling)  
labels <- as.character(tissue\_gene\_expression$y)  
  
# Step 3: Plot dendrogram with tissue type labels  
# Basic base R plot  
plot(hc, labels = labels, main = "Hierarchical Clustering of Tissues",  
 xlab = "", sub = "", cex = 0.6) # cex adjusts label size

 #3. Run a k-means clustering on the data with K=7 .Make a table comparing the identified clusters to the actual tissue types. Run the algorithm several times to see how the answer changes.

# Load libraries  
library(dslabs)  
library(dplyr)  
  
# Get the centered data again  
x <- tissue\_gene\_expression$x  
x\_centered <- sweep(x, 1, rowMeans(x))  
  
# Set number of clusters  
k <- 7  
  
# Run k-means clustering (set nstart for more stable results)  
set.seed(123) # Set seed for reproducibility  
kmeans\_result <- kmeans(x\_centered, centers = k, nstart = 25)  
  
# Compare clusters to actual tissue types  
table(Cluster = kmeans\_result$cluster, Tissue = tissue\_gene\_expression$y)

## Tissue  
## Cluster cerebellum colon endometrium hippocampus kidney liver placenta  
## 1 33 0 0 0 0 0 0  
## 2 0 0 0 0 0 0 6  
## 3 0 34 0 0 1 0 0  
## 4 0 0 15 0 0 0 0  
## 5 0 0 0 0 0 26 0  
## 6 0 0 0 0 38 0 0  
## 7 5 0 0 31 0 0 0

# Load required libraries  
library(dslabs)  
library(RColorBrewer)  
  
# Load the dataset  
x <- tissue\_gene\_expression$x  
y <- tissue\_gene\_expression$y  
  
# Step 1: Select the 50 most variable genes  
gene\_variances <- apply(x, 2, var)  
top\_genes <- order(gene\_variances, decreasing = TRUE)[1:50]  
heatmap\_data <- x[, top\_genes]  
  
# Step 2: Center each gene (column-wise)  
heatmap\_ready <- sweep(heatmap\_data, 2, colMeans(heatmap\_data))  
  
# Step 3: Assign tissue colors for each row (sample)  
# Use Set1 palette for clarity  
tissue\_colors <- as.factor(y)  
color\_palette <- brewer.pal(length(levels(tissue\_colors)), "Set1")  
tissue\_color\_keys <- color\_palette[tissue\_colors]  
  
# Step 4: Plot the heatmap  
heatmap(heatmap\_ready,  
 RowSideColors = tissue\_color\_keys, # Add color to show tissue type  
 col = brewer.pal(11, "RdBu"), # Color scale: low (blue) to high (red)  
 main = "Top 50 Genes: Expression Clustering by Tissue",  
 margins = c(6, 6)) # Extra space for labels

