A boring (academic) title or a clever title? A secondary title

YOUR NAME HERE Washington State University

In this article we compare the *empirical characteristic function* (Tukey 1977; Becker et al. 1988) to a *moment-generating-functional form* to compute the proportion of hypotheses m that are rejected under the null hypothesis. Here is a second paragraph of the abstract (if necessary), and with the pipe notation it doesn't

break. Notice it still needs to be indented. Generally, we write this abstract last. Often it is called the

executive summary. It should succinctly summarize the entire document. You can include references such as this one to the Appendices section ?? if necessary.

Keywords: multiple comparisons to control; multivariate chi-square distribution; nonlinear growth curves; Richard's curve; simulated critical points

November 09, 2020

```
library(devtools);  # required for source_url
path.humanVerseWSU = "https://raw.githubusercontent.com/MonteShaffer/humanVerseWSU/"
source_url( paste0(path.humanVerseWSU, "master/misc/functions-project-measure.R") );
source_url( paste0(path.humanVerseWSU, "master/humanVerseWSU/R/functions-dataframe.R") );
source_url( paste0(path.humanVerseWSU, "master/humanVerseWSU/R/functions-EDA.R") );
```

Below is the code to load the data and prepare it for analysis.

```
path.project = "C:/_git_/WSU_STATS419_FALL2020/project-measure/";
path.to.secret = "C:/Users/13608/Dropbox/WSU-419/Fall 2020/__student_access__/_SECRET_/";
measure = utils::read.csv( paste0(path.to.secret, "measure-students.txt"), header=TRUE, quote="", sep="
getOne = c("hand.length", "hand.width", "hand.elbow", "elbow.armpit", "arm.reach", "foot.length", "floo
n.rows = dim(measure)[1];

for(one in getOne)
   {
        measure[one] = NA;
   }

for(i in 1:n.rows)
   {
        measure.row = measure[i,];
        for(one in getOne)
        {
             nidx = getIndexOfDataFrameColumns(measure, one);

            myleft = paste0(one,".left");
            lidx = getIndexOfDataFrameColumns(measure.row, myleft);
            myright = paste0(one,".right");
            ridx = getIndexOfDataFrameColumns(measure.row, myright);
            ridx = getIndexOfDataFrame
```

```
print(paste0(
                  "left: ",myleft," --> ",lidx,
                  " right: ",myright," --> ",ridx
            );
     row.m = mean(
            c(as.numeric(unlist(measure.row[lidx])),
            as.numeric(unlist(measure.row[ridx]))),
            na.rm=TRUE);
   measure[i,nidx] = row.m;
}
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## [1] "left: floor.kneepit.left --> 20 right: floor.kneepit.right --> 21"
## [1] "left: floor.hip.left --> 22 right: floor.hip.right --> 23"
## [1] "left: floor.armpit.left --> 25 right: floor.armpit.right --> 26"
#path.qithub = "https://raw.qithubusercontent.com/this-IS-YOUR-PATH-TO-GITHUB/";
#source_url( pasteO(path.github, "master/functions/functions-project-measure.R") );
# this is your function
# put in the same "units"
# merge left/right
# build proportion data
# and so on ...
#measure.df = prepareMeasureData(measure);
nrow = nrow(measure);
ncol = ncol(measure);
myUnits = tolower(measure$units);
myUnits[myUnits=="inches"] = "in";
myUnits[myUnits=="inch"] = "in";
myUnits[myUnits=="\"in\""] = "in";
measure$my.units = myUnits;
myEthnicity = tolower(measure$ethnicity);
myEthnicity[myEthnicity=="white"] = "w";
myEthnicity[myEthnicity=="caucasian"] = "w";
```

```
myEthnicity[myEthnicity=="caucasain"] = "w";
myEthnicity[myEthnicity=="\"caucasian\""] = "w";
myEthnicity[myEthnicity=="anglo"] = "w";
myEthnicity[myEthnicity=="white non-hispanic"] = "w";
myEthnicity[myEthnicity=="black"] = "b";
myEthnicity[myEthnicity=="african american"] = "b";
myEthnicity[myEthnicity=="hispanic"] = "h";
myEthnicity[myEthnicity=="japanese"] = "j";
myEthnicity[myEthnicity=="filipino"] = "f";
myEthnicity[myEthnicity=="native american"] = "nat";
myEthnicity[myEthnicity=="latin american"] = "l";
myEthnicity[myEthnicity=="latino"] = "l";
myEthnicity[myEthnicity=="\"asian/latino\""] = "al";
myEthnicity[myEthnicity=="white-filipino"] = "wf";
myEthnicity[myEthnicity=="asain"] = "a";
myEthnicity[myEthnicity=="asian"] = "a";
myEthnicity[myEthnicity=="\"asian\""] = "a";
myEthnicity[myEthnicity=="chinese"] = "c";
myEthnicity[myEthnicity=="laotian"] = "lao";
myEthnicity[myEthnicity=="caucasian/asian"] = "ca";
myEthnicity[myEthnicity=="white italian"] = "wi";
myEthnicity[myEthnicity=="japanese italian"] = "ji";
myEthnicity[myEthnicity=="pacific islander"] = "pi";
myEthnicity[myEthnicity=="korean"] = "k";
myEthnicity[myEthnicity=="indian"] = "i";
measure$my.ethnicity = myEthnicity;
myGender = tolower(measure$gender);
myGender[myGender=="female"] = "f";
myGender[myGender=="male"] = "m";
myGender[myGender=="\"male\""] = "m";
myGender[myGender=="\"female\""] = "f";
myGender[myGender=="non-binary"] = "o";
measure$my.gender = myGender;
measure$new.units = "cm";
skip = c("minutes", "age", "quality");
## converting everything to cm
for(r in 1:nrow)
  {
  row = measure[r,];
  mynames = names(row);
  if(row$my.units == "in")
   for(c in 1:ncol)
      myname = mynames[c];
      if(!is.element(myname, skip))
        myval = unlist(row[c]);
        print(paste0("r: ",r, " c: ", c," ... old: ",myval, " ", is.numeric(myval), "
        if(is.numeric(myval))
```

```
newval = myval * 2.54; # 2.54 cm = 1 in
         measure[r,c] = newval;
  print(paste0(" --> ",newval));
       }
     }
   }
 }
## [1] "r: 31 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 31 c: 2 ... old: 789951a2bbfbf299b0822cc8452f236f FALSE
## [1] "r: 31 c: 3 ... old: left FALSE
## [1] "r: 31 c: 4 ... old: 69.75 TRUE
## [1] " --> 177.165"
## [1] "r: 31 c: 5 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 31 c: 6 ... old: 22.25 TRUE
## [1] " --> 56.515"
## [1] "r: 31 c: 7 ... old: 7.625 TRUE
## [1] " --> 19.3675"
## [1] "r: 31 c: 8 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 31 c: 9 ... old: 8.625 TRUE
## [1] " --> 21.9075"
## [1] "r: 31 c: 10 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 31 c: 11 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 31 c: 12 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 31 c: 13 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 31 c: 14 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 31 c: 15 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 31 c: 16 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 31 c: 17 ... old: 72.5 TRUE
## [1] " --> 184.15"
## [1] "r: 31 c: 18 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 31 c: 19 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 31 c: 20 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 31 c: 21 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 31 c: 22 ... old: 41.25 TRUE
## [1] " --> 104.775"
## [1] "r: 31 c: 23 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 31 c: 24 ... old: 41.25 TRUE
## [1] " --> 104.775"
```

```
## [1] "r: 31 c: 25 ... old: 58 TRUE
## [1] " --> 147.32"
## [1] "r: 31 c: 26 ... old: 57.5 TRUE
## [1] " --> 146.05"
## [1] "r: 31 c: 27 ... old: inches FALSE
## [1] "r: 31 c: 28 ... old: right FALSE
## [1] "r: 31 c: 29 ... old: right FALSE
## [1] "r: 31 c: 30 ... old: blue/green FALSE
## [1] "r: 31 c: 31 ... old: right FALSE
## [1] "r: 31 c: 33 ... old: male FALSE
## [1] "r: 31 c: 36 ... old: white FALSE
## [1] "r: 31 c: 37 ... old: has some native american FALSE
## [1] "r: 31 c: 38 ... old: 7.5625 TRUE
## [1] " --> 19.20875"
## [1] "r: 31 c: 39 ... old: 8.5625 TRUE
## [1] " --> 21.74875"
## [1] "r: 31 c: 40 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 31 c: 41 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 31 c: 42 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 31 c: 43 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 31 c: 44 ... old: 19.125 TRUE
## [1] " --> 48.5775"
## [1] "r: 31 c: 45 ... old: 41.125 TRUE
## [1] " --> 104.4575"
## [1] "r: 31 c: 46 ... old: 57.75 TRUE
## [1] " --> 146.685"
## [1] "r: 32 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 32 c: 2 ... old: e4a78a4c43790b174d1132cc72ff8829 FALSE
## [1] "r: 32 c: 3 ... old: left FALSE
## [1] "r: 32 c: 4 ... old: 44.75 TRUE
## [1] " --> 113.665"
## [1] "r: 32 c: 5 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 32 c: 6 ... old: 19.5 TRUE
## [1] " --> 49.53"
## [1] "r: 32 c: 7 ... old: 4.875 TRUE
## [1] " --> 12.3825"
## [1] "r: 32 c: 8 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 32 c: 9 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 32 c: 10 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 32 c: 11 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 32 c: 12 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 32 c: 13 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 32 c: 14 ... old: 7 TRUE
```

```
## [1] " --> 17.78"
## [1] "r: 32 c: 15 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 32 c: 16 ... old: 54.5 TRUE
## [1] " --> 138.43"
## [1] "r: 32 c: 17 ... old: 43.125 TRUE
## [1] " --> 109.5375"
## [1] "r: 32 c: 18 ... old: 6.25 TRUE
## [1] " --> 15.875"
## [1] "r: 32 c: 19 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 32 c: 20 ... old: 12.875 TRUE
## [1] " --> 32.7025"
## [1] "r: 32 c: 21 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 32 c: 22 ... old: 25.75 TRUE
## [1] " --> 65.405"
## [1] "r: 32 c: 23 ... old: 25.5 TRUE
## [1] " --> 64.77"
## [1] "r: 32 c: 24 ... old: 25.875 TRUE
## [1] " --> 65.7225"
## [1] "r: 32 c: 25 ... old: 35
## [1] " --> 88.9"
## [1] "r: 32 c: 26 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 32 c: 27 ... old: inches FALSE
## [1] "r: 32 c: 28 ... old: left FALSE
## [1] "r: 32 c: 29 ... old: right FALSE
## [1] "r: 32 c: 30 ... old: blue FALSE
## [1] "r: 32 c: 31 ... old: left FALSE
## [1] "r: 32 c: 33 ... old: female FALSE
## [1] "r: 32 c: 36 ... old: white FALSE
## [1] "r: 32 c: 37 ... old: Very good subject to measure FALSE
## [1] "r: 32 c: 38 ... old: 4.9375 TRUE
## [1] " --> 12.54125"
## [1] "r: 32 c: 39 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 32 c: 40 ... old: 11.125 TRUE
## [1] " --> 28.2575"
## [1] "r: 32 c: 41 ... old: 7.125 TRUE
## [1] " --> 18.0975"
## [1] "r: 32 c: 42 ... old: 54.25
## [1] " --> 137.795"
## [1] "r: 32 c: 43 ... old: 6.375 TRUE
## [1] " --> 16.1925"
## [1] "r: 32 c: 44 ... old: 12.9375 TRUE
## [1] " --> 32.86125"
## [1] "r: 32 c: 45 ... old: 25.625 TRUE
## [1] " --> 65.0875"
## [1] "r: 32 c: 46 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 33 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 33 c: 2 ... old: 02fd0c9a5c0a52e64e487541c668dbb8 FALSE
## [1] "r: 33 c: 3 ... old: left FALSE "
```

```
## [1] "r: 33 c: 4 ... old: 47.75 TRUE
## [1] " --> 121.285"
## [1] "r: 33 c: 5 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 33 c: 6 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 33 c: 7 ... old: 5.25 TRUE
## [1] " --> 13.335"
## [1] "r: 33 c: 8 ... old: 5.125 TRUE
## [1] " --> 13.0175"
## [1] "r: 33 c: 9 ... old: 5.875 TRUE
## [1] " --> 14.9225"
## [1] "r: 33 c: 10 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 33 c: 11 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 33 c: 12 ... old: 12.75 TRUE
## [1] " --> 32.385"
## [1] "r: 33 c: 13 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 33 c: 14 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 33 c: 15 ... old: 57.5 TRUE
## [1] " --> 146.05"
## [1] "r: 33 c: 16 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 33 c: 17 ... old: 46.25 TRUE
## [1] " --> 117.475"
## [1] "r: 33 c: 18 ... old: 7.25
                                 TRUE
## [1] " --> 18.415"
## [1] "r: 33 c: 19 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 33 c: 20 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 33 c: 21 ... old: 12.375 TRUE
## [1] " --> 31.4325"
## [1] "r: 33 c: 22 ... old: 27.25 TRUE
## [1] " --> 69.215"
## [1] "r: 33 c: 23 ... old: 27 TRUE
## [1] " --> 68.58"
## [1] "r: 33 c: 24 ... old: 27.625 TRUE
## [1] " --> 70.1675"
## [1] "r: 33 c: 25 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 33 c: 26 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 33 c: 27 ... old: inches FALSE
## [1] "r: 33 c: 28 ... old: right FALSE
## [1] "r: 33 c: 29 ... old: left FALSE
## [1] "r: 33 c: 30 ... old: brown FALSE
## [1] "r: 33 c: 31 ... old: right FALSE
## [1] "r: 33 c: 33 ... old: female FALSE
## [1] "r: 33 c: 36 ... old: white FALSE
## [1] "r: 33 c: 37 ... old: a bit wiggly FALSE
```

```
## [1] "r: 33 c: 38 ... old: 5.1875 TRUE
## [1] " --> 13.17625"
## [1] "r: 33 c: 39 ... old: 5.9375
## [1] " --> 15.08125"
## [1] "r: 33 c: 40 ... old: 12.625 TRUE
## [1] " --> 32.0675"
## [1] "r: 33 c: 41 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 33 c: 42 ... old: 57.25 TRUE
## [1] " --> 145.415"
## [1] "r: 33 c: 43 ... old: 7.375 TRUE
## [1] " --> 18.7325"
## [1] "r: 33 c: 44 ... old: 12.4375 TRUE
## [1] " --> 31.59125"
## [1] "r: 33 c: 45 ... old: 27.125 TRUE
## [1] " --> 68.8975"
## [1] "r: 33 c: 46 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 34 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 34 c: 2 ... old: 9f719255d46dd8b9b07935d891dc5295 FALSE
## [1] "r: 34 c: 3 ... old: left FALSE
## [1] "r: 34 c: 4 ... old: 71.5
## [1] " --> 181.61"
## [1] "r: 34 c: 5 ... old: 9.25
## [1] " --> 23.495"
## [1] "r: 34 c: 6 ... old: 23.5 TRUE
## [1] " --> 59.69"
## [1] "r: 34 c: 7 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 34 c: 8 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 34 c: 9 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 34 c: 10 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 34 c: 11 ... old: 19.25
## [1] " --> 48.895"
## [1] "r: 34 c: 12 ... old: 19.25
                                    TRUE
## [1] " --> 48.895"
## [1] "r: 34 c: 13 ... old: 12.25
                                    TRUE
## [1] " --> 31.115"
## [1] "r: 34 c: 14 ... old: 12.75
                                    TRUE
## [1] " --> 32.385"
## [1] "r: 34 c: 15 ... old: 87.25
## [1] " --> 221.615"
## [1] "r: 34 c: 16 ... old: 87.5 TRUE
## [1] " --> 222.25"
## [1] "r: 34 c: 17 ... old: 71.75 TRUE
## [1] " --> 182.245"
## [1] "r: 34 c: 18 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 34 c: 19 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 34 c: 20 ... old: 19.875 TRUE
```

```
## [1] " --> 50.4825"
## [1] "r: 34 c: 21 ... old: 19.875 TRUE
## [1] " --> 50.4825"
## [1] "r: 34 c: 22 ... old: 42.625
                                    TRUE
## [1] " --> 108.2675"
## [1] "r: 34 c: 23 ... old: 42.75 TRUE
## [1] " --> 108.585"
## [1] "r: 34 c: 24 ... old: 42.625 TRUE
## [1] " --> 108.2675"
## [1] "r: 34 c: 25 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 34 c: 26 ... old: 56.875 TRUE
## [1] " --> 144.4625"
## [1] "r: 34 c: 27 ... old: inches FALSE
## [1] "r: 34 c: 28 ... old: right FALSE
## [1] "r: 34 c: 29 ... old: left FALSE
## [1] "r: 34 c: 30 ... old: hazel FALSE
## [1] "r: 34 c: 31 ... old: right FALSE
## [1] "r: 34 c: 33 ... old: male FALSE
## [1] "r: 34 c: 36 ... old: white FALSE
## [1] "r: 34 c: 37 ... old: NA FALSE
## [1] "r: 34 c: 38 ... old: 7.8125 TRUE
## [1] " --> 19.84375"
## [1] "r: 34 c: 39 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 34 c: 40 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 34 c: 41 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 34 c: 42 ... old: 87.375 TRUE
## [1] " --> 221.9325"
## [1] "r: 34 c: 43 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 34 c: 44 ... old: 19.875 TRUE
## [1] " --> 50.4825"
## [1] "r: 34 c: 45 ... old: 42.6875 TRUE
## [1] " --> 108.42625"
## [1] "r: 34 c: 46 ... old: 56.9375 TRUE
## [1] " --> 144.62125"
## [1] "r: 35 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 35 c: 2 ... old: 06101d4bde60d0ea415206d4ba04572c FALSE
## [1] "r: 35 c: 3 ... old: left FALSE
## [1] "r: 35 c: 4 ... old: 63.5 TRUE
## [1] " --> 161.29"
## [1] "r: 35 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 35 c: 6 ... old: 21.5 TRUE
## [1] " --> 54.61"
## [1] "r: 35 c: 7 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 35 c: 8 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 35 c: 9 ... old: 7.5 TRUE
## [1] " --> 19.05"
```

```
## [1] "r: 35 c: 10 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 35 c: 11 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 35 c: 12 ... old: 16.25 TRUE
## [1] " --> 41.275"
## [1] "r: 35 c: 13 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 35 c: 14 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 35 c: 15 ... old: 80.5 TRUE
## [1] " --> 204.47"
## [1] "r: 35 c: 16 ... old: 78.75 TRUE
## [1] " --> 200.025"
## [1] "r: 35 c: 17 ... old: 63.25
                                   TRUE
## [1] " --> 160.655"
## [1] "r: 35 c: 18 ... old: 8.875
                                   TRUE
## [1] " --> 22.5425"
## [1] "r: 35 c: 19 ... old: 8.625
                                   TRUE
## [1] " --> 21.9075"
## [1] "r: 35 c: 20 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 35 c: 21 ... old: 17.25 TRUE
## [1] " --> 43.815"
## [1] "r: 35 c: 22 ... old: 38.25
                                   TRUE
## [1] " --> 97.155"
## [1] "r: 35 c: 23 ... old: 38.25
                                   TRUE
## [1] " --> 97.155"
## [1] "r: 35 c: 24 ... old: 38.5
                                  TRUE
## [1] " --> 97.79"
## [1] "r: 35 c: 25 ... old: 51.75 TRUE
## [1] " --> 131.445"
## [1] "r: 35 c: 26 ... old: 51.5 TRUE
## [1] " --> 130.81"
## [1] "r: 35 c: 27 ... old: inches FALSE
## [1] "r: 35 c: 28 ... old: left FALSE
## [1] "r: 35 c: 29 ... old: right FALSE
## [1] "r: 35 c: 30 ... old: green FALSE
## [1] "r: 35 c: 31 ... old: left FALSE
## [1] "r: 35 c: 33 ... old: female FALSE
## [1] "r: 35 c: 36 ... old: white FALSE
## [1] "r: 35 c: 37 ... old: has some native american FALSE
## [1] "r: 35 c: 38 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 35 c: 39 ... old: 7.6875
## [1] " --> 19.52625"
## [1] "r: 35 c: 40 ... old: 16.375 TRUE
## [1] " --> 41.5925"
## [1] "r: 35 c: 41 ... old: 11.75 TRUE
## [1] " --> 29.845"
## [1] "r: 35 c: 42 ... old: 79.625 TRUE
## [1] " --> 202.2475"
## [1] "r: 35 c: 43 ... old: 8.75 TRUE
## [1] " --> 22.225"
```

```
## [1] "r: 35 c: 44 ... old: 17.125 TRUE
## [1] " --> 43.4975"
## [1] "r: 35 c: 45 ... old: 38.25 TRUE
## [1] " --> 97.155"
## [1] "r: 35 c: 46 ... old: 51.625 TRUE
## [1] " --> 131.1275"
## [1] "r: 36 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 36 c: 2 ... old: 7a0dee5e063bbcbcd68e6e60eb0d8ac2 FALSE
## [1] "r: 36 c: 3 ... old: left FALSE
## [1] "r: 36 c: 4 ... old: 45 TRUE
## [1] " --> 114.3"
## [1] "r: 36 c: 5 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 36 c: 6 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 36 c: 7 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 36 c: 8 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 36 c: 9 ... old: 5.375 TRUE
## [1] " --> 13.6525"
## [1] "r: 36 c: 10 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 36 c: 11 ... old: 12.125 TRUE
## [1] " --> 30.7975"
## [1] "r: 36 c: 12 ... old: 12.125 TRUE
## [1] " --> 30.7975"
## [1] "r: 36 c: 13 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 36 c: 14 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 36 c: 15 ... old: 56.625 TRUE
## [1] " --> 143.8275"
## [1] "r: 36 c: 16 ... old: 56 TRUE
## [1] " --> 142.24"
## [1] "r: 36 c: 17 ... old: 45.625 TRUE
## [1] " --> 115.8875"
## [1] "r: 36 c: 18 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 36 c: 19 ... old: 7.375 TRUE
## [1] " --> 18.7325"
## [1] "r: 36 c: 20 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 36 c: 21 ... old: 12.25 TRUE
## [1] " --> 31.115"
## [1] "r: 36 c: 22 ... old: 26.625 TRUE
## [1] " --> 67.6275"
## [1] "r: 36 c: 23 ... old: 26.75 TRUE
## [1] " --> 67.945"
## [1] "r: 36 c: 24 ... old: 25.625 TRUE
## [1] " --> 65.0875"
## [1] "r: 36 c: 25 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 36 c: 26 ... old: 35.25 TRUE
```

```
## [1] " --> 89.535"
## [1] "r: 36 c: 27 ... old: inches FALSE
## [1] "r: 36 c: 28 ... old: right FALSE
## [1] "r: 36 c: 29 ... old: right FALSE
## [1] "r: 36 c: 30 ... old: hazel FALSE
## [1] "r: 36 c: 31 ... old: left FALSE
## [1] "r: 36 c: 33 ... old: female FALSE
## [1] "r: 36 c: 36 ... old: white FALSE
## [1] "r: 36 c: 37 ... old: person doing measurements was very accurate FALSE
## [1] "r: 36 c: 38 ... old: 5 TRUE "
## [1] " --> 12.7"
## [1] "r: 36 c: 39 ... old: 5.4375 TRUE
## [1] " --> 13.81125"
## [1] "r: 36 c: 40 ... old: 12.125 TRUE
## [1] " --> 30.7975"
## [1] "r: 36 c: 41 ... old: 8.875 TRUE
## [1] " --> 22.5425"
## [1] "r: 36 c: 42 ... old: 56.3125 TRUE
## [1] " --> 143.03375"
## [1] "r: 36 c: 43 ... old: 7.4375
## [1] " --> 18.89125"
## [1] "r: 36 c: 44 ... old: 12.125
## [1] " --> 30.7975"
## [1] "r: 36 c: 45 ... old: 26.6875 TRUE
## [1] " --> 67.78625"
## [1] "r: 36 c: 46 ... old: 35.375 TRUE
## [1] " --> 89.8525"
## [1] "r: 37 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 37 c: 2 ... old: 993be15b8f3ea1fb344718d12c4073fc FALSE
## [1] "r: 37 c: 3 ... old: left FALSE
## [1] "r: 37 c: 4 ... old: 61.125 TRUE
## [1] " --> 155.2575"
## [1] "r: 37 c: 5 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 37 c: 6 ... old: 21.875 TRUE
## [1] " --> 55.5625"
## [1] "r: 37 c: 7 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 37 c: 8 ... old: 7.125 TRUE
## [1] " --> 18.0975"
## [1] "r: 37 c: 9 ... old: 7.0625
## [1] " --> 17.93875"
## [1] "r: 37 c: 10 ... old: 7.375
## [1] " --> 18.7325"
## [1] "r: 37 c: 11 ... old: 16.125
## [1] " --> 40.9575"
## [1] "r: 37 c: 12 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 37 c: 13 ... old: 11.1875 TRUE
## [1] " --> 28.41625"
## [1] "r: 37 c: 14 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 37 c: 15 ... old: 73.75 TRUE
## [1] " --> 187.325"
```

```
## [1] "r: 37 c: 16 ... old: 76.5 TRUE
## [1] " --> 194.31"
## [1] "r: 37 c: 17 ... old: 60.875 TRUE
## [1] " --> 154.6225"
## [1] "r: 37 c: 18 ... old: 9.375 TRUE
## [1] " --> 23.8125"
## [1] "r: 37 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 37 c: 20 ... old: 19.375 TRUE
## [1] " --> 49.2125"
## [1] "r: 37 c: 21 ... old: 19.625 TRUE
## [1] " --> 49.8475"
## [1] "r: 37 c: 22 ... old: 36.5 TRUE
## [1] " --> 92.71"
## [1] "r: 37 c: 23 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 37 c: 24 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 37 c: 25 ... old: 49.5 TRUE
## [1] " --> 125.73"
## [1] "r: 37 c: 26 ... old: 49.25 TRUE
## [1] " --> 125.095"
## [1] "r: 37 c: 27 ... old: inches FALSE
## [1] "r: 37 c: 28 ... old: right FALSE
## [1] "r: 37 c: 29 ... old: left FALSE
## [1] "r: 37 c: 30 ... old: brown FALSE
## [1] "r: 37 c: 31 ... old: right FALSE
## [1] "r: 37 c: 33 ... old: female FALSE
## [1] "r: 37 c: 36 ... old: white FALSE
## [1] "r: 37 c: 37 ... old: person doing measurements was very accurate FALSE
## [1] "r: 37 c: 38 ... old: 7.1875 TRUE
## [1] " --> 18.25625"
## [1] "r: 37 c: 39 ... old: 7.21875 TRUE
## [1] " --> 18.335625"
## [1] "r: 37 c: 40 ... old: 16.0625 TRUE
## [1] " --> 40.79875"
## [1] "r: 37 c: 41 ... old: 11.21875 TRUE
## [1] " --> 28.495625"
## [1] "r: 37 c: 42 ... old: 75.125 TRUE
## [1] " --> 190.8175"
## [1] "r: 37 c: 43 ... old: 9.4375 TRUE
## [1] " --> 23.97125"
## [1] "r: 37 c: 44 ... old: 19.5 TRUE
## [1] " --> 49.53"
## [1] "r: 37 c: 45 ... old: 36.75 TRUE
## [1] " --> 93.345"
## [1] "r: 37 c: 46 ... old: 49.375 TRUE
## [1] " --> 125.4125"
## [1] "r: 38 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 38 c: 2 ... old: ac11025453a44a174b69354845b985d5 FALSE
## [1] "r: 38 c: 3 ... old: left FALSE
## [1] "r: 38 c: 4 ... old: 65.625 TRUE
## [1] " --> 166.6875"
## [1] "r: 38 c: 5 ... old: 8.625 TRUE
```

```
## [1] " --> 21.9075"
## [1] "r: 38 c: 6 ... old: 22.125 TRUE
## [1] " --> 56.1975"
## [1] "r: 38 c: 7 ... old: 7.1875 TRUE
## [1] " --> 18.25625"
## [1] "r: 38 c: 8 ... old: 7.125 TRUE
## [1] " --> 18.0975"
## [1] "r: 38 c: 9 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 38 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 38 c: 11 ... old: 17.1875 TRUE
## [1] " --> 43.65625"
## [1] "r: 38 c: 12 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 38 c: 13 ... old: 12.125 TRUE
## [1] " --> 30.7975"
## [1] "r: 38 c: 14 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 38 c: 15 ... old: 75.75 TRUE
## [1] " --> 192.405"
## [1] "r: 38 c: 16 ... old: 74.625
## [1] " --> 189.5475"
## [1] "r: 38 c: 17 ... old: 65.875 TRUE
## [1] " --> 167.3225"
## [1] "r: 38 c: 18 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 38 c: 19 ... old: 9.875 TRUE
## [1] " --> 25.0825"
## [1] "r: 38 c: 20 ... old: 17.625 TRUE
## [1] " --> 44.7675"
## [1] "r: 38 c: 21 ... old: 17.25 TRUE
## [1] " --> 43.815"
## [1] "r: 38 c: 22 ... old: 37.5 TRUE
## [1] " --> 95.25"
## [1] "r: 38 c: 23 ... old: 37.75 TRUE
## [1] " --> 95.885"
## [1] "r: 38 c: 24 ... old: 36.75
                                  TRUE
## [1] " --> 93.345"
## [1] "r: 38 c: 25 ... old: 54.5 TRUE
## [1] " --> 138.43"
## [1] "r: 38 c: 26 ... old: 54.75 TRUE
## [1] " --> 139.065"
## [1] "r: 38 c: 27 ... old: inches FALSE
## [1] "r: 38 c: 28 ... old: right FALSE
## [1] "r: 38 c: 29 ... old: left FALSE
## [1] "r: 38 c: 30 ... old: brown FALSE
## [1] "r: 38 c: 31 ... old: right FALSE
## [1] "r: 38 c: 33 ... old: female FALSE
## [1] "r: 38 c: 36 ... old: white FALSE
## [1] "r: 38 c: 37 ... old: person doing measurements was very accurate FALSE
## [1] "r: 38 c: 38 ... old: 7.15625 TRUE
## [1] " --> 18.176875"
## [1] "r: 38 c: 39 ... old: 8.25 TRUE
```

```
## [1] " --> 20.955"
## [1] "r: 38 c: 40 ... old: 17.09375 TRUE
## [1] " --> 43.418125"
## [1] "r: 38 c: 41 ... old: 12.3125 TRUE
## [1] " --> 31.27375"
## [1] "r: 38 c: 42 ... old: 75.1875
                                     TRUE
## [1] " --> 190.97625"
## [1] "r: 38 c: 43 ... old: 9.8125 TRUE
## [1] " --> 24.92375"
## [1] "r: 38 c: 44 ... old: 17.4375 TRUE
## [1] " --> 44.29125"
## [1] "r: 38 c: 45 ... old: 37.625 TRUE
## [1] " --> 95.5675"
## [1] "r: 38 c: 46 ... old: 54.625 TRUE
## [1] " --> 138.7475"
## [1] "r: 39 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 39 c: 2 ... old: 21a0357f2ca81fcfc9e5502e6ba4c5de FALSE
## [1] "r: 39 c: 3 ... old: left FALSE
## [1] "r: 39 c: 4 ... old: 62 TRUE
## [1] " --> 157.48"
## [1] "r: 39 c: 5 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 39 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 39 c: 7 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 39 c: 8 ... old: 6.375 TRUE
## [1] " --> 16.1925"
## [1] "r: 39 c: 9 ... old: 7.5625 TRUE
## [1] " --> 19.20875"
## [1] "r: 39 c: 10 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 39 c: 11 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 39 c: 12 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 39 c: 13 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 39 c: 14 ... old: 11.75 TRUE
## [1] " --> 29.845"
## [1] "r: 39 c: 15 ... old: 79 TRUE
## [1] " --> 200.66"
## [1] "r: 39 c: 16 ... old: 80.5 TRUE
## [1] " --> 204.47"
## [1] "r: 39 c: 17 ... old: 62 TRUE
## [1] " --> 157.48"
## [1] "r: 39 c: 18 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 39 c: 19 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 39 c: 20 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 39 c: 21 ... old: 17.375 TRUE
## [1] " --> 44.1325"
```

```
## [1] "r: 39 c: 22 ... old: 36.5 TRUE
## [1] " --> 92.71"
## [1] "r: 39 c: 23 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 39 c: 24 ... old: 37
## [1] " --> 93.98"
## [1] "r: 39 c: 25 ... old: 50
## [1] " --> 127"
## [1] "r: 39 c: 26 ... old: 51 TRUE
## [1] " --> 129.54"
## [1] "r: 39 c: 27 ... old: inches FALSE
## [1] "r: 39 c: 28 ... old: right FALSE
## [1] "r: 39 c: 29 ... old: right FALSE
## [1] "r: 39 c: 30 ... old: blue FALSE
## [1] "r: 39 c: 31 ... old: right FALSE
## [1] "r: 39 c: 33 ... old: female FALSE
## [1] "r: 39 c: 36 ... old: white FALSE
## [1] "r: 39 c: 37 ... old: subject had been drinking before taking measurements FALSE
## [1] "r: 39 c: 38 ... old: 6.4375 TRUE
## [1] " --> 16.35125"
## [1] "r: 39 c: 39 ... old: 7.53125 TRUE
## [1] " --> 19.129375"
## [1] "r: 39 c: 40 ... old: 16.875 TRUE
## [1] " --> 42.8625"
## [1] "r: 39 c: 41 ... old: 11.625 TRUE
## [1] " --> 29.5275"
## [1] "r: 39 c: 42 ... old: 79.75
## [1] " --> 202.565"
## [1] "r: 39 c: 43 ... old: 8.875
## [1] " --> 22.5425"
## [1] "r: 39 c: 44 ... old: 17.0625 TRUE
## [1] " --> 43.33875"
## [1] "r: 39 c: 45 ... old: 36.75 TRUE
## [1] " --> 93.345"
## [1] "r: 39 c: 46 ... old: 50.5 TRUE
## [1] " --> 128.27"
## [1] "r: 40 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 40 c: 2 ... old: 08982a644b08fcabe920861dcf638039 FALSE
## [1] "r: 40 c: 3 ... old: left FALSE
## [1] "r: 40 c: 4 ... old: 70.5 TRUE
## [1] " --> 179.07"
## [1] "r: 40 c: 5 ... old: 9.125 TRUE
## [1] " --> 23.1775"
## [1] "r: 40 c: 6 ... old: 22.875 TRUE
## [1] " --> 58.1025"
## [1] "r: 40 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 40 c: 8 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 40 c: 9 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 40 c: 10 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 40 c: 11 ... old: 19.125 TRUE
```

```
## [1] " --> 48.5775"
## [1] "r: 40 c: 12 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 40 c: 13 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 40 c: 14 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 40 c: 15 ... old: 88.5 TRUE
## [1] " --> 224.79"
## [1] "r: 40 c: 16 ... old: 88 TRUE
## [1] " --> 223.52"
## [1] "r: 40 c: 17 ... old: 72.125 TRUE
## [1] " --> 183.1975"
## [1] "r: 40 c: 18 ... old: 10.25 TRUE
## [1] " --> 26.035"
## [1] "r: 40 c: 19 ... old: 10.25
## [1] " --> 26.035"
## [1] "r: 40 c: 20 ... old: 19.75
## [1] " --> 50.165"
## [1] "r: 40 c: 21 ... old: 19.626
## [1] " --> 49.85004"
## [1] "r: 40 c: 22 ... old: 42.25
## [1] " --> 107.315"
## [1] "r: 40 c: 23 ... old: 41.875 TRUE
## [1] " --> 106.3625"
## [1] "r: 40 c: 24 ... old: 40.75 TRUE
## [1] " --> 103.505"
## [1] "r: 40 c: 25 ... old: 57.75 TRUE
## [1] " --> 146.685"
## [1] "r: 40 c: 26 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 40 c: 27 ... old: inches FALSE
## [1] "r: 40 c: 28 ... old: right FALSE
## [1] "r: 40 c: 29 ... old: right FALSE
## [1] "r: 40 c: 30 ... old: green FALSE
## [1] "r: 40 c: 31 ... old: right FALSE
## [1] "r: 40 c: 33 ... old: male FALSE
## [1] "r: 40 c: 36 ... old: white FALSE
## [1] "r: 40 c: 37 ... old: NA FALSE
## [1] "r: 40 c: 38 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 40 c: 39 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 40 c: 40 ... old: 19.1875 TRUE
## [1] " --> 48.73625"
## [1] "r: 40 c: 41 ... old: 12.25 TRUE
## [1] " --> 31.115"
## [1] "r: 40 c: 42 ... old: 88.25
                                   TRUE
## [1] " --> 224.155"
## [1] "r: 40 c: 43 ... old: 10.25
## [1] " --> 26.035"
## [1] "r: 40 c: 44 ... old: 19.688
## [1] " --> 50.00752"
## [1] "r: 40 c: 45 ... old: 42.0625 TRUE
```

```
## [1] " --> 106.83875"
## [1] "r: 40 c: 46 ... old: 57.375 TRUE
## [1] " --> 145.7325"
## [1] "r: 41 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 41 c: 2 ... old: 7aa407c589c49ea3aa49224367f9aad8 FALSE
## [1] "r: 41 c: 3 ... old: left FALSE
## [1] "r: 41 c: 4 ... old: 62.25 TRUE
## [1] " --> 158.115"
## [1] "r: 41 c: 5 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 41 c: 6 ... old: 22.375 TRUE
## [1] " --> 56.8325"
## [1] "r: 41 c: 7 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 41 c: 8 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 41 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 41 c: 10 ... old: 8.125 TRUE
## [1] " --> 20.6375"
## [1] "r: 41 c: 11 ... old: 16.875 TRUE
## [1] " --> 42.8625"
## [1] "r: 41 c: 12 ... old: 17.125 TRUE
## [1] " --> 43.4975"
## [1] "r: 41 c: 13 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 41 c: 14 ... old: 11.75 TRUE
## [1] " --> 29.845"
## [1] "r: 41 c: 15 ... old: 79 TRUE
## [1] " --> 200.66"
## [1] "r: 41 c: 16 ... old: 79.375 TRUE
## [1] " --> 201.6125"
## [1] "r: 41 c: 17 ... old: 63.25 TRUE
## [1] " --> 160.655"
## [1] "r: 41 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 41 c: 19 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 41 c: 20 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 41 c: 21 ... old: 17.125 TRUE
## [1] " --> 43.4975"
## [1] "r: 41 c: 22 ... old: 37.5 TRUE
## [1] " --> 95.25"
## [1] "r: 41 c: 23 ... old: 37.875 TRUE
## [1] " --> 96.2025"
## [1] "r: 41 c: 24 ... old: 37.75 TRUE
## [1] " --> 95.885"
## [1] "r: 41 c: 25 ... old: 52.25 TRUE
## [1] " --> 132.715"
## [1] "r: 41 c: 26 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 41 c: 27 ... old: inches FALSE
## [1] "r: 41 c: 28 ... old: right FALSE
```

```
## [1] "r: 41 c: 29 ... old: left FALSE
## [1] "r: 41 c: 30 ... old: blue FALSE
## [1] "r: 41 c: 31 ... old: right FALSE
## [1] "r: 41 c: 33 ... old: female FALSE
## [1] "r: 41 c: 36 ... old: white FALSE
## [1] "r: 41 c: 37 ... old: has some native american FALSE
## [1] "r: 41 c: 38 ... old: 6.8125 TRUE
## [1] " --> 17.30375"
## [1] "r: 41 c: 39 ... old: 8.0625 TRUE
## [1] " --> 20.47875"
## [1] "r: 41 c: 40 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 41 c: 41 ... old: 11.625
## [1] " --> 29.5275"
## [1] "r: 41 c: 42 ... old: 79.1875 TRUE
## [1] " --> 201.13625"
## [1] "r: 41 c: 43 ... old: 9.375 TRUE
## [1] " --> 23.8125"
## [1] "r: 41 c: 44 ... old: 17.0625 TRUE
## [1] " --> 43.33875"
## [1] "r: 41 c: 45 ... old: 37.6875 TRUE
## [1] " --> 95.72625"
## [1] "r: 41 c: 46 ... old: 52.125 TRUE
## [1] " --> 132.3975"
## [1] "r: 42 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 42 c: 2 ... old: 789951a2bbfbf299b0822cc8452f236f FALSE
## [1] "r: 42 c: 3 ... old: left FALSE
## [1] "r: 42 c: 4 ... old: 69.75 TRUE
## [1] " --> 177.165"
## [1] "r: 42 c: 5 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 42 c: 6 ... old: 22.25 TRUE
## [1] " --> 56.515"
## [1] "r: 42 c: 7 ... old: 7.625
                                 TRUE
## [1] " --> 19.3675"
## [1] "r: 42 c: 8 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 42 c: 9 ... old: 8.625 TRUE
## [1] " --> 21.9075"
## [1] "r: 42 c: 10 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 42 c: 11 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 42 c: 12 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 42 c: 13 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 42 c: 14 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 42 c: 15 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 42 c: 16 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 42 c: 17 ... old: 72.5 TRUE
```

```
## [1] " --> 184.15"
## [1] "r: 42 c: 18 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 42 c: 19 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 42 c: 20 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 42 c: 21 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 42 c: 22 ... old: 41.25 TRUE
## [1] " --> 104.775"
## [1] "r: 42 c: 23 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 42 c: 24 ... old: 41.25 TRUE
## [1] " --> 104.775"
## [1] "r: 42 c: 25 ... old: 58 TRUE
## [1] " --> 147.32"
## [1] "r: 42 c: 26 ... old: 57.5 TRUE "
## [1] " --> 146.05"
## [1] "r: 42 c: 27 ... old: inches FALSE
## [1] "r: 42 c: 28 ... old: right FALSE
## [1] "r: 42 c: 29 ... old: right FALSE
## [1] "r: 42 c: 30 ... old: blue/green FALSE
## [1] "r: 42 c: 31 ... old: right FALSE
## [1] "r: 42 c: 33 ... old: male FALSE
## [1] "r: 42 c: 36 ... old: white FALSE
## [1] "r: 42 c: 37 ... old: has some native american FALSE
## [1] "r: 42 c: 38 ... old: 7.5625 TRUE
## [1] " --> 19.20875"
## [1] "r: 42 c: 39 ... old: 8.5625 TRUE
## [1] " --> 21.74875"
## [1] "r: 42 c: 40 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 42 c: 41 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 42 c: 42 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 42 c: 43 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 42 c: 44 ... old: 19.125 TRUE
## [1] " --> 48.5775"
## [1] "r: 42 c: 45 ... old: 41.125 TRUE
## [1] " --> 104.4575"
## [1] "r: 42 c: 46 ... old: 57.75 TRUE
## [1] " --> 146.685"
## [1] "r: 43 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 43 c: 2 ... old: e4a78a4c43790b174d1132cc72ff8829 FALSE
## [1] "r: 43 c: 3 ... old: left FALSE
## [1] "r: 43 c: 4 ... old: 44.75 TRUE
## [1] " --> 113.665"
## [1] "r: 43 c: 5 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 43 c: 6 ... old: 19.5 TRUE
## [1] " --> 49.53"
```

```
## [1] "r: 43 c: 7 ... old: 4.875 TRUE
## [1] " --> 12.3825"
## [1] "r: 43 c: 8 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 43 c: 9 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 43 c: 10 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 43 c: 11 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 43 c: 12 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 43 c: 13 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 43 c: 14 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 43 c: 15 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 43 c: 16 ... old: 54.5 TRUE
## [1] " --> 138.43"
## [1] "r: 43 c: 17 ... old: 43.125 TRUE
## [1] " --> 109.5375"
## [1] "r: 43 c: 18 ... old: 6.25 TRUE
## [1] " --> 15.875"
## [1] "r: 43 c: 19 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 43 c: 20 ... old: 12.875 TRUE
## [1] " --> 32.7025"
## [1] "r: 43 c: 21 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 43 c: 22 ... old: 25.75 TRUE
## [1] " --> 65.405"
## [1] "r: 43 c: 23 ... old: 25.5 TRUE
## [1] " --> 64.77"
## [1] "r: 43 c: 24 ... old: 25.875 TRUE
## [1] " --> 65.7225"
## [1] "r: 43 c: 25 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 43 c: 26 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 43 c: 27 ... old: inches FALSE
## [1] "r: 43 c: 28 ... old: left FALSE
## [1] "r: 43 c: 29 ... old: right FALSE
## [1] "r: 43 c: 30 ... old: blue FALSE
## [1] "r: 43 c: 31 ... old: left FALSE
## [1] "r: 43 c: 33 ... old: female FALSE
## [1] "r: 43 c: 36 ... old: white FALSE
## [1] "r: 43 c: 37 ... old: Very good subject to measure FALSE
## [1] "r: 43 c: 38 ... old: 4.9375 TRUE
## [1] " --> 12.54125"
## [1] "r: 43 c: 39 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 43 c: 40 ... old: 11.125 TRUE
## [1] " --> 28.2575"
```

```
## [1] "r: 43 c: 41 ... old: 7.125
## [1] " --> 18.0975"
## [1] "r: 43 c: 42 ... old: 54.25
## [1] " --> 137.795"
## [1] "r: 43 c: 43 ... old: 6.375 TRUE
## [1] " --> 16.1925"
## [1] "r: 43 c: 44 ... old: 12.9375 TRUE
## [1] " --> 32.86125"
## [1] "r: 43 c: 45 ... old: 25.625 TRUE
## [1] " --> 65.0875"
## [1] "r: 43 c: 46 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 44 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 44 c: 2 ... old: 02fd0c9a5c0a52e64e487541c668dbb8 FALSE
## [1] "r: 44 c: 3 ... old: left FALSE
## [1] "r: 44 c: 4 ... old: 47.75 TRUE
## [1] " --> 121.285"
## [1] "r: 44 c: 5 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 44 c: 6 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 44 c: 7 ... old: 5.25
## [1] " --> 13.335"
## [1] "r: 44 c: 8 ... old: 5.125 TRUE
## [1] " --> 13.0175"
## [1] "r: 44 c: 9 ... old: 5.875 TRUE
## [1] " --> 14.9225"
## [1] "r: 44 c: 10 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 44 c: 11 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 44 c: 12 ... old: 12.75 TRUE
## [1] " --> 32.385"
## [1] "r: 44 c: 13 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 44 c: 14 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 44 c: 15 ... old: 57.5 TRUE
## [1] " --> 146.05"
## [1] "r: 44 c: 16 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 44 c: 17 ... old: 46.25 TRUE
## [1] " --> 117.475"
## [1] "r: 44 c: 18 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 44 c: 19 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 44 c: 20 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 44 c: 21 ... old: 12.375 TRUE
## [1] " --> 31.4325"
## [1] "r: 44 c: 22 ... old: 27.25 TRUE
## [1] " --> 69.215"
## [1] "r: 44 c: 23 ... old: 27 TRUE
```

```
## [1] " --> 68.58"
## [1] "r: 44 c: 24 ... old: 27.625 TRUE
## [1] " --> 70.1675"
## [1] "r: 44 c: 25 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 44 c: 26 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 44 c: 27 ... old: inches FALSE
## [1] "r: 44 c: 28 ... old: right FALSE
## [1] "r: 44 c: 29 ... old: left FALSE
## [1] "r: 44 c: 30 ... old: brown FALSE
## [1] "r: 44 c: 31 ... old: right FALSE
## [1] "r: 44 c: 33 ... old: female FALSE
## [1] "r: 44 c: 36 ... old: white FALSE
## [1] "r: 44 c: 37 ... old: a bit wiggly
                                          FALSE
## [1] "r: 44 c: 38 ... old: 5.1875 TRUE
## [1] " --> 13.17625"
## [1] "r: 44 c: 39 ... old: 5.9375 TRUE
## [1] " --> 15.08125"
## [1] "r: 44 c: 40 ... old: 12.625 TRUE
## [1] " --> 32.0675"
## [1] "r: 44 c: 41 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 44 c: 42 ... old: 57.25 TRUE
## [1] " --> 145.415"
## [1] "r: 44 c: 43 ... old: 7.375 TRUE
## [1] " --> 18.7325"
## [1] "r: 44 c: 44 ... old: 12.4375 TRUE
## [1] " --> 31.59125"
## [1] "r: 44 c: 45 ... old: 27.125 TRUE
## [1] " --> 68.8975"
## [1] "r: 44 c: 46 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 45 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 45 c: 2 ... old: 9f719255d46dd8b9b07935d891dc5295 FALSE
## [1] "r: 45 c: 3 ... old: left FALSE
## [1] "r: 45 c: 4 ... old: 71.5
## [1] " --> 181.61"
## [1] "r: 45 c: 5 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 45 c: 6 ... old: 23.5 TRUE
## [1] " --> 59.69"
## [1] "r: 45 c: 7 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 45 c: 8 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 45 c: 9 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 45 c: 10 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 45 c: 11 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 45 c: 12 ... old: 19.25 TRUE
## [1] " --> 48.895"
```

```
## [1] "r: 45 c: 13 ... old: 12.25
## [1] " --> 31.115"
## [1] "r: 45 c: 14 ... old: 12.75
## [1] " --> 32.385"
## [1] "r: 45 c: 15 ... old: 87.25
## [1] " --> 221.615"
## [1] "r: 45 c: 16 ... old: 87.5 TRUE
## [1] " --> 222.25"
## [1] "r: 45 c: 17 ... old: 71.75 TRUE
## [1] " --> 182.245"
## [1] "r: 45 c: 18 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 45 c: 19 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 45 c: 20 ... old: 19.875 TRUE
## [1] " --> 50.4825"
## [1] "r: 45 c: 21 ... old: 19.875
                                   TRUE
## [1] " --> 50.4825"
## [1] "r: 45 c: 22 ... old: 42.625
                                   TRUE
## [1] " --> 108.2675"
## [1] "r: 45 c: 23 ... old: 42.75 TRUE
## [1] " --> 108.585"
## [1] "r: 45 c: 24 ... old: 42.625 TRUE
## [1] " --> 108.2675"
## [1] "r: 45 c: 25 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 45 c: 26 ... old: 56.875 TRUE
## [1] " --> 144.4625"
## [1] "r: 45 c: 27 ... old: inches FALSE
## [1] "r: 45 c: 28 ... old: right FALSE
## [1] "r: 45 c: 29 ... old: left FALSE
## [1] "r: 45 c: 30 ... old: hazel FALSE
## [1] "r: 45 c: 31 ... old: right FALSE
## [1] "r: 45 c: 33 ... old: male FALSE
## [1] "r: 45 c: 36 ... old: white FALSE
## [1] "r: 45 c: 37 ... old: NA FALSE
## [1] "r: 45 c: 38 ... old: 7.8125 TRUE
## [1] " --> 19.84375"
## [1] "r: 45 c: 39 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 45 c: 40 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 45 c: 41 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 45 c: 42 ... old: 87.375 TRUE
## [1] " --> 221.9325"
## [1] "r: 45 c: 43 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 45 c: 44 ... old: 19.875 TRUE
## [1] " --> 50.4825"
## [1] "r: 45 c: 45 ... old: 42.6875 TRUE
## [1] " --> 108.42625"
## [1] "r: 45 c: 46 ... old: 56.9375 TRUE
## [1] " --> 144.62125"
```

```
## [1] "r: 46 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 46 c: 2 ... old: 06101d4bde60d0ea415206d4ba04572c FALSE
## [1] "r: 46 c: 3 ... old: left FALSE
## [1] "r: 46 c: 4 ... old: 63.5 TRUE
## [1] " --> 161.29"
## [1] "r: 46 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 46 c: 6 ... old: 21.5 TRUE
## [1] " --> 54.61"
## [1] "r: 46 c: 7 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 46 c: 8 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 46 c: 9 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 46 c: 10 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 46 c: 11 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 46 c: 12 ... old: 16.25 TRUE
## [1] " --> 41.275"
## [1] "r: 46 c: 13 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 46 c: 14 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 46 c: 15 ... old: 80.5 TRUE
## [1] " --> 204.47"
## [1] "r: 46 c: 16 ... old: 78.75 TRUE
## [1] " --> 200.025"
## [1] "r: 46 c: 17 ... old: 63.25
                                   TRUE
## [1] " --> 160.655"
## [1] "r: 46 c: 18 ... old: 8.875
                                   TRUE
## [1] " --> 22.5425"
## [1] "r: 46 c: 19 ... old: 8.625
                                   TRUE
## [1] " --> 21.9075"
## [1] "r: 46 c: 20 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 46 c: 21 ... old: 17.25
                                  TRUE
## [1] " --> 43.815"
## [1] "r: 46 c: 22 ... old: 38.25
                                   TRUE
## [1] " --> 97.155"
## [1] "r: 46 c: 23 ... old: 38.25
                                   TRUE
## [1] " --> 97.155"
## [1] "r: 46 c: 24 ... old: 38.5 TRUE
## [1] " --> 97.79"
## [1] "r: 46 c: 25 ... old: 51.75 TRUE
## [1] " --> 131.445"
## [1] "r: 46 c: 26 ... old: 51.5 TRUE
## [1] " --> 130.81"
## [1] "r: 46 c: 27 ... old: inches FALSE
## [1] "r: 46 c: 28 ... old: left FALSE
## [1] "r: 46 c: 29 ... old: right FALSE
## [1] "r: 46 c: 30 ... old: green FALSE
## [1] "r: 46 c: 31 ... old: left FALSE
```

```
## [1] "r: 46 c: 33 ... old: female FALSE
## [1] "r: 46 c: 36 ... old: white FALSE
## [1] "r: 46 c: 37 ... old: has some native american FALSE
## [1] "r: 46 c: 38 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 46 c: 39 ... old: 7.6875
                                    TRUE
## [1] " --> 19.52625"
## [1] "r: 46 c: 40 ... old: 16.375 TRUE
## [1] " --> 41.5925"
## [1] "r: 46 c: 41 ... old: 11.75 TRUE
## [1] " --> 29.845"
## [1] "r: 46 c: 42 ... old: 79.625 TRUE
## [1] " --> 202.2475"
## [1] "r: 46 c: 43 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 46 c: 44 ... old: 17.125 TRUE
## [1] " --> 43.4975"
## [1] "r: 46 c: 45 ... old: 38.25 TRUE
## [1] " --> 97.155"
## [1] "r: 46 c: 46 ... old: 51.625 TRUE
## [1] " --> 131.1275"
## [1] "r: 47 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 47 c: 2 ... old: 7a0dee5e063bbcbcd68e6e60eb0d8ac2 FALSE
## [1] "r: 47 c: 3 ... old: left FALSE
## [1] "r: 47 c: 4 ... old: 45 TRUE
## [1] " --> 114.3"
## [1] "r: 47 c: 5 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 47 c: 6 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 47 c: 7 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 47 c: 8 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 47 c: 9 ... old: 5.375 TRUE
## [1] " --> 13.6525"
## [1] "r: 47 c: 10 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 47 c: 11 ... old: 12.125 TRUE
## [1] " --> 30.7975"
## [1] "r: 47 c: 12 ... old: 12.125 TRUE
## [1] " --> 30.7975"
## [1] "r: 47 c: 13 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 47 c: 14 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 47 c: 15 ... old: 56.625 TRUE
## [1] " --> 143.8275"
## [1] "r: 47 c: 16 ... old: 56 TRUE
## [1] " --> 142.24"
## [1] "r: 47 c: 17 ... old: 45.625 TRUE
## [1] " --> 115.8875"
## [1] "r: 47 c: 18 ... old: 7.5 TRUE
## [1] " --> 19.05"
```

```
## [1] "r: 47 c: 19 ... old: 7.375 TRUE
## [1] " --> 18.7325"
## [1] "r: 47 c: 20 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 47 c: 21 ... old: 12.25 TRUE
## [1] " --> 31.115"
## [1] "r: 47 c: 22 ... old: 26.625
## [1] " --> 67.6275"
## [1] "r: 47 c: 23 ... old: 26.75 TRUE
## [1] " --> 67.945"
## [1] "r: 47 c: 24 ... old: 25.625 TRUE
## [1] " --> 65.0875"
## [1] "r: 47 c: 25 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 47 c: 26 ... old: 35.25 TRUE
## [1] " --> 89.535"
## [1] "r: 47 c: 27 ... old: inches FALSE
## [1] "r: 47 c: 28 ... old: right FALSE
## [1] "r: 47 c: 29 ... old: right FALSE
## [1] "r: 47 c: 30 ... old: hazel FALSE
## [1] "r: 47 c: 31 ... old: left FALSE
## [1] "r: 47 c: 33 ... old: female FALSE
## [1] "r: 47 c: 36 ... old: white FALSE
## [1] "r: 47 c: 37 ... old: person doing measurements was very accurate FALSE
## [1] "r: 47 c: 38 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 47 c: 39 ... old: 5.4375 TRUE
## [1] " --> 13.81125"
## [1] "r: 47 c: 40 ... old: 12.125
                                    TRUE
## [1] " --> 30.7975"
## [1] "r: 47 c: 41 ... old: 8.875 TRUE
## [1] " --> 22.5425"
## [1] "r: 47 c: 42 ... old: 56.3125 TRUE
## [1] " --> 143.03375"
## [1] "r: 47 c: 43 ... old: 7.4375
## [1] " --> 18.89125"
## [1] "r: 47 c: 44 ... old: 12.125
## [1] " --> 30.7975"
## [1] "r: 47 c: 45 ... old: 26.6875 TRUE
## [1] " --> 67.78625"
## [1] "r: 47 c: 46 ... old: 35.375 TRUE
## [1] " --> 89.8525"
## [1] "r: 48 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 48 c: 2 ... old: 993be15b8f3ea1fb344718d12c4073fc FALSE
## [1] "r: 48 c: 3 ... old: left FALSE
## [1] "r: 48 c: 4 ... old: 61.125 TRUE
## [1] " --> 155.2575"
## [1] "r: 48 c: 5 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 48 c: 6 ... old: 21.875 TRUE
## [1] " --> 55.5625"
## [1] "r: 48 c: 7 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 48 c: 8 ... old: 7.125 TRUE
```

```
## [1] " --> 18.0975"
## [1] "r: 48 c: 9 ... old: 7.0625 TRUE
## [1] " --> 17.93875"
## [1] "r: 48 c: 10 ... old: 7.375 TRUE
## [1] " --> 18.7325"
## [1] "r: 48 c: 11 ... old: 16.125 TRUE
## [1] " --> 40.9575"
## [1] "r: 48 c: 12 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 48 c: 13 ... old: 11.1875 TRUE
## [1] " --> 28.41625"
## [1] "r: 48 c: 14 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 48 c: 15 ... old: 73.75 TRUE
## [1] " --> 187.325"
## [1] "r: 48 c: 16 ... old: 76.5 TRUE
## [1] " --> 194.31"
## [1] "r: 48 c: 17 ... old: 60.875 TRUE
## [1] " --> 154.6225"
## [1] "r: 48 c: 18 ... old: 9.375 TRUE
## [1] " --> 23.8125"
## [1] "r: 48 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 48 c: 20 ... old: 19.375 TRUE
## [1] " --> 49.2125"
## [1] "r: 48 c: 21 ... old: 19.625 TRUE
## [1] " --> 49.8475"
## [1] "r: 48 c: 22 ... old: 36.5 TRUE
## [1] " --> 92.71"
## [1] "r: 48 c: 23 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 48 c: 24 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 48 c: 25 ... old: 49.5 TRUE
## [1] " --> 125.73"
## [1] "r: 48 c: 26 ... old: 49.25 TRUE
## [1] " --> 125.095"
## [1] "r: 48 c: 27 ... old: inches FALSE
## [1] "r: 48 c: 28 ... old: right FALSE
## [1] "r: 48 c: 29 ... old: left FALSE
## [1] "r: 48 c: 30 ... old: brown FALSE
## [1] "r: 48 c: 31 ... old: right FALSE
## [1] "r: 48 c: 33 ... old: female FALSE
## [1] "r: 48 c: 36 ... old: white FALSE
## [1] "r: 48 c: 37 ... old: person doing measurements was very accurate FALSE
## [1] "r: 48 c: 38 ... old: 7.1875 TRUE
## [1] " --> 18.25625"
## [1] "r: 48 c: 39 ... old: 7.21875 TRUE
## [1] " --> 18.335625"
## [1] "r: 48 c: 40 ... old: 16.0625
## [1] " --> 40.79875"
## [1] "r: 48 c: 41 ... old: 11.21875 TRUE
## [1] " --> 28.495625"
## [1] "r: 48 c: 42 ... old: 75.125 TRUE
```

```
## [1] " --> 190.8175"
## [1] "r: 48 c: 43 ... old: 9.4375 TRUE
## [1] " --> 23.97125"
## [1] "r: 48 c: 44 ... old: 19.5 TRUE
## [1] " --> 49.53"
## [1] "r: 48 c: 45 ... old: 36.75 TRUE
## [1] " --> 93.345"
## [1] "r: 48 c: 46 ... old: 49.375 TRUE
## [1] " --> 125.4125"
## [1] "r: 49 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 49 c: 2 ... old: ac11025453a44a174b69354845b985d5 FALSE
## [1] "r: 49 c: 3 ... old: left FALSE
## [1] "r: 49 c: 4 ... old: 65.625 TRUE
## [1] " --> 166.6875"
## [1] "r: 49 c: 5 ... old: 8.625 TRUE
## [1] " --> 21.9075"
## [1] "r: 49 c: 6 ... old: 22.125 TRUE
## [1] " --> 56.1975"
## [1] "r: 49 c: 7 ... old: 7.1875 TRUE
## [1] " --> 18.25625"
## [1] "r: 49 c: 8 ... old: 7.125 TRUE
## [1] " --> 18.0975"
## [1] "r: 49 c: 9 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 49 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 49 c: 11 ... old: 17.1875 TRUE
## [1] " --> 43.65625"
## [1] "r: 49 c: 12 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 49 c: 13 ... old: 12.125 TRUE
## [1] " --> 30.7975"
## [1] "r: 49 c: 14 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 49 c: 15 ... old: 75.75 TRUE
## [1] " --> 192.405"
## [1] "r: 49 c: 16 ... old: 74.625 TRUE
## [1] " --> 189.5475"
## [1] "r: 49 c: 17 ... old: 65.875 TRUE
## [1] " --> 167.3225"
## [1] "r: 49 c: 18 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 49 c: 19 ... old: 9.875 TRUE
## [1] " --> 25.0825"
## [1] "r: 49 c: 20 ... old: 17.625
                                    TRUE
## [1] " --> 44.7675"
## [1] "r: 49 c: 21 ... old: 17.25 TRUE
## [1] " --> 43.815"
## [1] "r: 49 c: 22 ... old: 37.5 TRUE
## [1] " --> 95.25"
## [1] "r: 49 c: 23 ... old: 37.75 TRUE
## [1] " --> 95.885"
## [1] "r: 49 c: 24 ... old: 36.75 TRUE
## [1] " --> 93.345"
```

```
## [1] "r: 49 c: 25 ... old: 54.5 TRUE
## [1] " --> 138.43"
## [1] "r: 49 c: 26 ... old: 54.75 TRUE
## [1] " --> 139.065"
## [1] "r: 49 c: 27 ... old: inches FALSE
## [1] "r: 49 c: 28 ... old: right FALSE
## [1] "r: 49 c: 29 ... old: left FALSE
## [1] "r: 49 c: 30 ... old: brown FALSE
## [1] "r: 49 c: 31 ... old: right FALSE
## [1] "r: 49 c: 33 ... old: female FALSE
## [1] "r: 49 c: 36 ... old: white FALSE
## [1] "r: 49 c: 37 ... old: person doing measurements was very accurate FALSE
## [1] "r: 49 c: 38 ... old: 7.15625 TRUE
## [1] " --> 18.176875"
## [1] "r: 49 c: 39 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 49 c: 40 ... old: 17.09375 TRUE
## [1] " --> 43.418125"
## [1] "r: 49 c: 41 ... old: 12.3125 TRUE
## [1] " --> 31.27375"
## [1] "r: 49 c: 42 ... old: 75.1875 TRUE
## [1] " --> 190.97625"
## [1] "r: 49 c: 43 ... old: 9.8125 TRUE
## [1] " --> 24.92375"
## [1] "r: 49 c: 44 ... old: 17.4375 TRUE
## [1] " --> 44.29125"
## [1] "r: 49 c: 45 ... old: 37.625
## [1] " --> 95.5675"
## [1] "r: 49 c: 46 ... old: 54.625
                                   TRUE
## [1] " --> 138.7475"
## [1] "r: 50 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 50 c: 2 ... old: 21a0357f2ca81fcfc9e5502e6ba4c5de FALSE
## [1] "r: 50 c: 3 ... old: left FALSE
## [1] "r: 50 c: 4 ... old: 62 TRUE
## [1] " --> 157.48"
## [1] "r: 50 c: 5 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 50 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 50 c: 7 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 50 c: 8 ... old: 6.375 TRUE
## [1] " --> 16.1925"
## [1] "r: 50 c: 9 ... old: 7.5625 TRUE
## [1] " --> 19.20875"
## [1] "r: 50 c: 10 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 50 c: 11 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 50 c: 12 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 50 c: 13 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 50 c: 14 ... old: 11.75 TRUE
```

```
## [1] " --> 29.845"
## [1] "r: 50 c: 15 ... old: 79 TRUE
## [1] " --> 200.66"
## [1] "r: 50 c: 16 ... old: 80.5 TRUE
## [1] " --> 204.47"
## [1] "r: 50 c: 17 ... old: 62 TRUE
## [1] " --> 157.48"
## [1] "r: 50 c: 18 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 50 c: 19 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 50 c: 20 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 50 c: 21 ... old: 17.375 TRUE
## [1] " --> 44.1325"
## [1] "r: 50 c: 22 ... old: 36.5 TRUE
## [1] " --> 92.71"
## [1] "r: 50 c: 23 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 50 c: 24 ... old: 37
## [1] " --> 93.98"
## [1] "r: 50 c: 25 ... old: 50
## [1] " --> 127"
## [1] "r: 50 c: 26 ... old: 51 TRUE
## [1] " --> 129.54"
## [1] "r: 50 c: 27 ... old: inches FALSE
## [1] "r: 50 c: 28 ... old: right FALSE
## [1] "r: 50 c: 29 ... old: right FALSE
## [1] "r: 50 c: 30 ... old: blue FALSE
## [1] "r: 50 c: 31 ... old: right FALSE
## [1] "r: 50 c: 33 ... old: female FALSE
## [1] "r: 50 c: 36 ... old: white FALSE
## [1] "r: 50 c: 37 ... old: subject had been drinking before taking measurements FALSE
## [1] "r: 50 c: 38 ... old: 6.4375 TRUE
## [1] " --> 16.35125"
## [1] "r: 50 c: 39 ... old: 7.53125
## [1] " --> 19.129375"
## [1] "r: 50 c: 40 ... old: 16.875 TRUE
## [1] " --> 42.8625"
## [1] "r: 50 c: 41 ... old: 11.625 TRUE
## [1] " --> 29.5275"
## [1] "r: 50 c: 42 ... old: 79.75 TRUE
## [1] " --> 202.565"
## [1] "r: 50 c: 43 ... old: 8.875 TRUE
## [1] " --> 22.5425"
## [1] "r: 50 c: 44 ... old: 17.0625 TRUE
## [1] " --> 43.33875"
## [1] "r: 50 c: 45 ... old: 36.75 TRUE
## [1] " --> 93.345"
## [1] "r: 50 c: 46 ... old: 50.5 TRUE
## [1] " --> 128.27"
## [1] "r: 51 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 51 c: 2 ... old: 08982a644b08fcabe920861dcf638039 FALSE
## [1] "r: 51 c: 3 ... old: left FALSE "
```

```
## [1] "r: 51 c: 4 ... old: 70.5 TRUE
## [1] " --> 179.07"
## [1] "r: 51 c: 5 ... old: 9.125 TRUE
## [1] " --> 23.1775"
## [1] "r: 51 c: 6 ... old: 22.875 TRUE
## [1] " --> 58.1025"
## [1] "r: 51 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 51 c: 8 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 51 c: 9 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 51 c: 10 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 51 c: 11 ... old: 19.125 TRUE
## [1] " --> 48.5775"
## [1] "r: 51 c: 12 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 51 c: 13 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 51 c: 14 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 51 c: 15 ... old: 88.5 TRUE
## [1] " --> 224.79"
## [1] "r: 51 c: 16 ... old: 88 TRUE
## [1] " --> 223.52"
## [1] "r: 51 c: 17 ... old: 72.125 TRUE
## [1] " --> 183.1975"
## [1] "r: 51 c: 18 ... old: 10.25
                                   TRUE
## [1] " --> 26.035"
## [1] "r: 51 c: 19 ... old: 10.25
## [1] " --> 26.035"
## [1] "r: 51 c: 20 ... old: 19.75
## [1] " --> 50.165"
## [1] "r: 51 c: 21 ... old: 19.626 TRUE
## [1] " --> 49.85004"
## [1] "r: 51 c: 22 ... old: 42.25 TRUE
## [1] " --> 107.315"
## [1] "r: 51 c: 23 ... old: 41.875 TRUE
## [1] " --> 106.3625"
## [1] "r: 51 c: 24 ... old: 40.75
## [1] " --> 103.505"
## [1] "r: 51 c: 25 ... old: 57.75 TRUE
## [1] " --> 146.685"
## [1] "r: 51 c: 26 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 51 c: 27 ... old: inches FALSE
## [1] "r: 51 c: 28 ... old: right FALSE
## [1] "r: 51 c: 29 ... old: right FALSE
## [1] "r: 51 c: 30 ... old: green FALSE
## [1] "r: 51 c: 31 ... old: right FALSE
## [1] "r: 51 c: 33 ... old: male FALSE
## [1] "r: 51 c: 36 ... old: white FALSE
## [1] "r: 51 c: 37 ... old: NA FALSE
```

```
## [1] "r: 51 c: 38 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 51 c: 39 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 51 c: 40 ... old: 19.1875 TRUE
## [1] " --> 48.73625"
## [1] "r: 51 c: 41 ... old: 12.25 TRUE
## [1] " --> 31.115"
## [1] "r: 51 c: 42 ... old: 88.25 TRUE
## [1] " --> 224.155"
## [1] "r: 51 c: 43 ... old: 10.25
                                   TRUE
## [1] " --> 26.035"
## [1] "r: 51 c: 44 ... old: 19.688
## [1] " --> 50.00752"
## [1] "r: 51 c: 45 ... old: 42.0625 TRUE
## [1] " --> 106.83875"
## [1] "r: 51 c: 46 ... old: 57.375 TRUE
## [1] " --> 145.7325"
## [1] "r: 52 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 52 c: 2 ... old: 7aa407c589c49ea3aa49224367f9aad8 FALSE
## [1] "r: 52 c: 3 ... old: left FALSE
## [1] "r: 52 c: 4 ... old: 62.25 TRUE
## [1] " --> 158.115"
## [1] "r: 52 c: 5 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 52 c: 6 ... old: 22.375 TRUE
## [1] " --> 56.8325"
## [1] "r: 52 c: 7 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 52 c: 8 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 52 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 52 c: 10 ... old: 8.125 TRUE
## [1] " --> 20.6375"
## [1] "r: 52 c: 11 ... old: 16.875
                                    TRUE
## [1] " --> 42.8625"
## [1] "r: 52 c: 12 ... old: 17.125 TRUE
## [1] " --> 43.4975"
## [1] "r: 52 c: 13 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 52 c: 14 ... old: 11.75 TRUE
## [1] " --> 29.845"
## [1] "r: 52 c: 15 ... old: 79 TRUE
## [1] " --> 200.66"
## [1] "r: 52 c: 16 ... old: 79.375 TRUE
## [1] " --> 201.6125"
## [1] "r: 52 c: 17 ... old: 63.25 TRUE
## [1] " --> 160.655"
## [1] "r: 52 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 52 c: 19 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 52 c: 20 ... old: 17 TRUE
```

```
## [1] " --> 43.18"
## [1] "r: 52 c: 21 ... old: 17.125 TRUE
## [1] " --> 43.4975"
## [1] "r: 52 c: 22 ... old: 37.5 TRUE
## [1] " --> 95.25"
## [1] "r: 52 c: 23 ... old: 37.875 TRUE
## [1] " --> 96.2025"
## [1] "r: 52 c: 24 ... old: 37.75 TRUE
## [1] " --> 95.885"
## [1] "r: 52 c: 25 ... old: 52.25 TRUE
## [1] " --> 132.715"
## [1] "r: 52 c: 26 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 52 c: 27 ... old: inches FALSE
## [1] "r: 52 c: 28 ... old: right FALSE
## [1] "r: 52 c: 29 ... old: left FALSE
## [1] "r: 52 c: 30 ... old: blue FALSE
## [1] "r: 52 c: 31 ... old: right FALSE
## [1] "r: 52 c: 33 ... old: female FALSE
## [1] "r: 52 c: 36 ... old: white FALSE
## [1] "r: 52 c: 37 ... old: has some native american FALSE
## [1] "r: 52 c: 38 ... old: 6.8125 TRUE
## [1] " --> 17.30375"
## [1] "r: 52 c: 39 ... old: 8.0625 TRUE
## [1] " --> 20.47875"
## [1] "r: 52 c: 40 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 52 c: 41 ... old: 11.625 TRUE
## [1] " --> 29.5275"
## [1] "r: 52 c: 42 ... old: 79.1875 TRUE
## [1] " --> 201.13625"
## [1] "r: 52 c: 43 ... old: 9.375 TRUE
## [1] " --> 23.8125"
## [1] "r: 52 c: 44 ... old: 17.0625 TRUE
## [1] " --> 43.33875"
## [1] "r: 52 c: 45 ... old: 37.6875
## [1] " --> 95.72625"
## [1] "r: 52 c: 46 ... old: 52.125 TRUE
## [1] " --> 132.3975"
## [1] "r: 53 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 53 c: 2 ... old: 789951a2bbfbf299b0822cc8452f236f FALSE
## [1] "r: 53 c: 3 ... old: left FALSE
## [1] "r: 53 c: 4 ... old: 69.75 TRUE
## [1] " --> 177.165"
## [1] "r: 53 c: 5 ... old: 9.25
## [1] " --> 23.495"
## [1] "r: 53 c: 6 ... old: 22.25 TRUE
## [1] " --> 56.515"
## [1] "r: 53 c: 7 ... old: 7.625 TRUE
## [1] " --> 19.3675"
## [1] "r: 53 c: 8 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 53 c: 9 ... old: 8.625 TRUE
## [1] " --> 21.9075"
```

```
## [1] "r: 53 c: 10 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 53 c: 11 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 53 c: 12 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 53 c: 13 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 53 c: 14 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 53 c: 15 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 53 c: 16 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 53 c: 17 ... old: 72.5 TRUE
## [1] " --> 184.15"
## [1] "r: 53 c: 18 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 53 c: 19 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 53 c: 20 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 53 c: 21 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 53 c: 22 ... old: 41.25 TRUE
## [1] " --> 104.775"
## [1] "r: 53 c: 23 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 53 c: 24 ... old: 41.25 TRUE
## [1] " --> 104.775"
## [1] "r: 53 c: 25 ... old: 58 TRUE
## [1] " --> 147.32"
## [1] "r: 53 c: 26 ... old: 57.5 TRUE "
## [1] " --> 146.05"
## [1] "r: 53 c: 27 ... old: inches FALSE
## [1] "r: 53 c: 28 ... old: right FALSE
## [1] "r: 53 c: 29 ... old: right FALSE
## [1] "r: 53 c: 30 ... old: blue/green FALSE
## [1] "r: 53 c: 31 ... old: right FALSE
## [1] "r: 53 c: 33 ... old: male FALSE
## [1] "r: 53 c: 36 ... old: white FALSE
## [1] "r: 53 c: 37 ... old: has some native american FALSE
## [1] "r: 53 c: 38 ... old: 7.5625 TRUE
## [1] " --> 19.20875"
## [1] "r: 53 c: 39 ... old: 8.5625
## [1] " --> 21.74875"
## [1] "r: 53 c: 40 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 53 c: 41 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 53 c: 42 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 53 c: 43 ... old: 11.25 TRUE
## [1] " --> 28.575"
```

```
## [1] "r: 53 c: 44 ... old: 19.125 TRUE
## [1] " --> 48.5775"
## [1] "r: 53 c: 45 ... old: 41.125 TRUE
## [1] " --> 104.4575"
## [1] "r: 53 c: 46 ... old: 57.75 TRUE
## [1] " --> 146.685"
## [1] "r: 54 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 54 c: 2 ... old: e4a78a4c43790b174d1132cc72ff8829 FALSE
## [1] "r: 54 c: 3 ... old: left FALSE "
## [1] "r: 54 c: 4 ... old: 44.75 TRUE
## [1] " --> 113.665"
## [1] "r: 54 c: 5 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 54 c: 6 ... old: 19.5 TRUE
## [1] " --> 49.53"
## [1] "r: 54 c: 7 ... old: 4.875 TRUE
## [1] " --> 12.3825"
## [1] "r: 54 c: 8 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 54 c: 9 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 54 c: 10 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 54 c: 11 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 54 c: 12 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 54 c: 13 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 54 c: 14 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 54 c: 15 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 54 c: 16 ... old: 54.5 TRUE
## [1] " --> 138.43"
## [1] "r: 54 c: 17 ... old: 43.125 TRUE
## [1] " --> 109.5375"
## [1] "r: 54 c: 18 ... old: 6.25 TRUE
## [1] " --> 15.875"
## [1] "r: 54 c: 19 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 54 c: 20 ... old: 12.875 TRUE
## [1] " --> 32.7025"
## [1] "r: 54 c: 21 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 54 c: 22 ... old: 25.75 TRUE
## [1] " --> 65.405"
## [1] "r: 54 c: 23 ... old: 25.5 TRUE
## [1] " --> 64.77"
## [1] "r: 54 c: 24 ... old: 25.875 TRUE
## [1] " --> 65.7225"
## [1] "r: 54 c: 25 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 54 c: 26 ... old: 35 TRUE
```

```
## [1] " --> 88.9"
## [1] "r: 54 c: 27 ... old: inches FALSE
## [1] "r: 54 c: 28 ... old: left FALSE
## [1] "r: 54 c: 29 ... old: right FALSE
## [1] "r: 54 c: 30 ... old: blue FALSE
## [1] "r: 54 c: 31 ... old: left FALSE
## [1] "r: 54 c: 33 ... old: female FALSE
## [1] "r: 54 c: 36 ... old: white FALSE
## [1] "r: 54 c: 37 ... old: Very good subject to measure FALSE
## [1] "r: 54 c: 38 ... old: 4.9375 TRUE
## [1] " --> 12.54125"
## [1] "r: 54 c: 39 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 54 c: 40 ... old: 11.125 TRUE
## [1] " --> 28.2575"
## [1] "r: 54 c: 41 ... old: 7.125 TRUE
## [1] " --> 18.0975"
## [1] "r: 54 c: 42 ... old: 54.25
## [1] " --> 137.795"
## [1] "r: 54 c: 43 ... old: 6.375
## [1] " --> 16.1925"
## [1] "r: 54 c: 44 ... old: 12.9375
## [1] " --> 32.86125"
## [1] "r: 54 c: 45 ... old: 25.625 TRUE
## [1] " --> 65.0875"
## [1] "r: 54 c: 46 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 55 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 55 c: 2 ... old: 02fd0c9a5c0a52e64e487541c668dbb8 FALSE
## [1] "r: 55 c: 3 ... old: left FALSE
## [1] "r: 55 c: 4 ... old: 47.75 TRUE
## [1] " --> 121.285"
## [1] "r: 55 c: 5 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 55 c: 6 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 55 c: 7 ... old: 5.25 TRUE
## [1] " --> 13.335"
## [1] "r: 55 c: 8 ... old: 5.125 TRUE
## [1] " --> 13.0175"
## [1] "r: 55 c: 9 ... old: 5.875 TRUE
## [1] " --> 14.9225"
## [1] "r: 55 c: 10 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 55 c: 11 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 55 c: 12 ... old: 12.75 TRUE
## [1] " --> 32.385"
## [1] "r: 55 c: 13 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 55 c: 14 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 55 c: 15 ... old: 57.5 TRUE
## [1] " --> 146.05"
```

```
## [1] "r: 55 c: 16 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 55 c: 17 ... old: 46.25 TRUE
## [1] " --> 117.475"
## [1] "r: 55 c: 18 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 55 c: 19 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 55 c: 20 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 55 c: 21 ... old: 12.375 TRUE
## [1] " --> 31.4325"
## [1] "r: 55 c: 22 ... old: 27.25 TRUE
## [1] " --> 69.215"
## [1] "r: 55 c: 23 ... old: 27 TRUE
## [1] " --> 68.58"
## [1] "r: 55 c: 24 ... old: 27.625 TRUE
## [1] " --> 70.1675"
## [1] "r: 55 c: 25 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 55 c: 26 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 55 c: 27 ... old: inches FALSE
## [1] "r: 55 c: 28 ... old: right FALSE
## [1] "r: 55 c: 29 ... old: left FALSE
## [1] "r: 55 c: 30 ... old: brown FALSE
## [1] "r: 55 c: 31 ... old: right FALSE
## [1] "r: 55 c: 33 ... old: female FALSE
## [1] "r: 55 c: 36 ... old: white FALSE
## [1] "r: 55 c: 37 ... old: a bit wiggly
                                          FALSE
## [1] "r: 55 c: 38 ... old: 5.1875 TRUE
## [1] " --> 13.17625"
## [1] "r: 55 c: 39 ... old: 5.9375 TRUE
## [1] " --> 15.08125"
## [1] "r: 55 c: 40 ... old: 12.625 TRUE
## [1] " --> 32.0675"
## [1] "r: 55 c: 41 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 55 c: 42 ... old: 57.25 TRUE
## [1] " --> 145.415"
## [1] "r: 55 c: 43 ... old: 7.375 TRUE
## [1] " --> 18.7325"
## [1] "r: 55 c: 44 ... old: 12.4375 TRUE
## [1] " --> 31.59125"
## [1] "r: 55 c: 45 ... old: 27.125 TRUE
## [1] " --> 68.8975"
## [1] "r: 55 c: 46 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 56 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 56 c: 2 ... old: 9f719255d46dd8b9b07935d891dc5295 FALSE
## [1] "r: 56 c: 3 ... old: left FALSE
## [1] "r: 56 c: 4 ... old: 71.5 TRUE
## [1] " --> 181.61"
## [1] "r: 56 c: 5 ... old: 9.25 TRUE
```

```
## [1] " --> 23.495"
## [1] "r: 56 c: 6 ... old: 23.5 TRUE
## [1] " --> 59.69"
## [1] "r: 56 c: 7 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 56 c: 8 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 56 c: 9 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 56 c: 10 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 56 c: 11 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 56 c: 12 ... old: 19.25
## [1] " --> 48.895"
## [1] "r: 56 c: 13 ... old: 12.25
## [1] " --> 31.115"
## [1] "r: 56 c: 14 ... old: 12.75
## [1] " --> 32.385"
## [1] "r: 56 c: 15 ... old: 87.25
## [1] " --> 221.615"
## [1] "r: 56 c: 16 ... old: 87.5
## [1] " --> 222.25"
## [1] "r: 56 c: 17 ... old: 71.75 TRUE
## [1] " --> 182.245"
## [1] "r: 56 c: 18 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 56 c: 19 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 56 c: 20 ... old: 19.875 TRUE
## [1] " --> 50.4825"
## [1] "r: 56 c: 21 ... old: 19.875 TRUE
## [1] " --> 50.4825"
## [1] "r: 56 c: 22 ... old: 42.625
                                    TRUE
## [1] " --> 108.2675"
## [1] "r: 56 c: 23 ... old: 42.75 TRUE
## [1] " --> 108.585"
## [1] "r: 56 c: 24 ... old: 42.625 TRUE
## [1] " --> 108.2675"
## [1] "r: 56 c: 25 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 56 c: 26 ... old: 56.875 TRUE
## [1] " --> 144.4625"
## [1] "r: 56 c: 27 ... old: inches FALSE
## [1] "r: 56 c: 28 ... old: right FALSE
## [1] "r: 56 c: 29 ... old: left FALSE
## [1] "r: 56 c: 30 ... old: hazel FALSE
## [1] "r: 56 c: 31 ... old: right FALSE
## [1] "r: 56 c: 33 ... old: male FALSE
## [1] "r: 56 c: 36 ... old: white FALSE
## [1] "r: 56 c: 37 ... old: NA FALSE
## [1] "r: 56 c: 38 ... old: 7.8125 TRUE
## [1] " --> 19.84375"
## [1] "r: 56 c: 39 ... old: 9 TRUE
```

```
## [1] " --> 22.86"
## [1] "r: 56 c: 40 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 56 c: 41 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 56 c: 42 ... old: 87.375 TRUE
## [1] " --> 221.9325"
## [1] "r: 56 c: 43 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 56 c: 44 ... old: 19.875 TRUE
## [1] " --> 50.4825"
## [1] "r: 56 c: 45 ... old: 42.6875 TRUE
## [1] " --> 108.42625"
## [1] "r: 56 c: 46 ... old: 56.9375 TRUE
## [1] " --> 144.62125"
## [1] "r: 57 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 57 c: 2 ... old: 06101d4bde60d0ea415206d4ba04572c FALSE
## [1] "r: 57 c: 3 ... old: left FALSE
## [1] "r: 57 c: 4 ... old: 63.5 TRUE
## [1] " --> 161.29"
## [1] "r: 57 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 57 c: 6 ... old: 21.5 TRUE
## [1] " --> 54.61"
## [1] "r: 57 c: 7 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 57 c: 8 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 57 c: 9 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 57 c: 10 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 57 c: 11 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 57 c: 12 ... old: 16.25 TRUE
## [1] " --> 41.275"
## [1] "r: 57 c: 13 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 57 c: 14 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 57 c: 15 ... old: 80.5 TRUE
## [1] " --> 204.47"
## [1] "r: 57 c: 16 ... old: 78.75
                                   TRUE
## [1] " --> 200.025"
## [1] "r: 57 c: 17 ... old: 63.25
                                   TRUE
## [1] " --> 160.655"
## [1] "r: 57 c: 18 ... old: 8.875
## [1] " --> 22.5425"
## [1] "r: 57 c: 19 ... old: 8.625
## [1] " --> 21.9075"
## [1] "r: 57 c: 20 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 57 c: 21 ... old: 17.25 TRUE
## [1] " --> 43.815"
```

```
## [1] "r: 57 c: 22 ... old: 38.25
## [1] " --> 97.155"
## [1] "r: 57 c: 23 ... old: 38.25
## [1] " --> 97.155"
## [1] "r: 57 c: 24 ... old: 38.5 TRUE
## [1] " --> 97.79"
## [1] "r: 57 c: 25 ... old: 51.75 TRUE
## [1] " --> 131.445"
## [1] "r: 57 c: 26 ... old: 51.5 TRUE
## [1] " --> 130.81"
## [1] "r: 57 c: 27 ... old: inches FALSE
## [1] "r: 57 c: 28 ... old: left FALSE
## [1] "r: 57 c: 29 ... old: right FALSE
## [1] "r: 57 c: 30 ... old: green FALSE
## [1] "r: 57 c: 31 ... old: left FALSE
## [1] "r: 57 c: 33 ... old: female FALSE
## [1] "r: 57 c: 36 ... old: white FALSE
## [1] "r: 57 c: 37 ... old: has some native american FALSE
## [1] "r: 57 c: 38 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 57 c: 39 ... old: 7.6875 TRUE
## [1] " --> 19.52625"
## [1] "r: 57 c: 40 ... old: 16.375 TRUE
## [1] " --> 41.5925"
## [1] "r: 57 c: 41 ... old: 11.75 TRUE
## [1] " --> 29.845"
## [1] "r: 57 c: 42 ... old: 79.625 TRUE
## [1] " --> 202.2475"
## [1] "r: 57 c: 43 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 57 c: 44 ... old: 17.125 TRUE
## [1] " --> 43.4975"
## [1] "r: 57 c: 45 ... old: 38.25 TRUE
## [1] " --> 97.155"
## [1] "r: 57 c: 46 ... old: 51.625 TRUE
## [1] " --> 131.1275"
## [1] "r: 58 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 58 c: 2 ... old: 7a0dee5e063bbcbcd68e6e60eb0d8ac2 FALSE
## [1] "r: 58 c: 3 ... old: left FALSE
## [1] "r: 58 c: 4 ... old: 45 TRUE
## [1] " --> 114.3"
## [1] "r: 58 c: 5 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 58 c: 6 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 58 c: 7 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 58 c: 8 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 58 c: 9 ... old: 5.375 TRUE
## [1] " --> 13.6525"
## [1] "r: 58 c: 10 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 58 c: 11 ... old: 12.125 TRUE
```

```
## [1] " --> 30.7975"
## [1] "r: 58 c: 12 ... old: 12.125 TRUE
## [1] " --> 30.7975"
## [1] "r: 58 c: 13 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 58 c: 14 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 58 c: 15 ... old: 56.625 TRUE
## [1] " --> 143.8275"
## [1] "r: 58 c: 16 ... old: 56 TRUE
## [1] " --> 142.24"
## [1] "r: 58 c: 17 ... old: 45.625 TRUE
## [1] " --> 115.8875"
## [1] "r: 58 c: 18 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 58 c: 19 ... old: 7.375 TRUE
## [1] " --> 18.7325"
## [1] "r: 58 c: 20 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 58 c: 21 ... old: 12.25 TRUE
## [1] " --> 31.115"
## [1] "r: 58 c: 22 ... old: 26.625
## [1] " --> 67.6275"
## [1] "r: 58 c: 23 ... old: 26.75 TRUE
## [1] " --> 67.945"
## [1] "r: 58 c: 24 ... old: 25.625 TRUE
## [1] " --> 65.0875"
## [1] "r: 58 c: 25 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 58 c: 26 ... old: 35.25 TRUE
## [1] " --> 89.535"
## [1] "r: 58 c: 27 ... old: inches FALSE
## [1] "r: 58 c: 28 ... old: right FALSE
## [1] "r: 58 c: 29 ... old: right FALSE
## [1] "r: 58 c: 30 ... old: hazel FALSE
## [1] "r: 58 c: 31 ... old: left FALSE
## [1] "r: 58 c: 33 ... old: female FALSE
## [1] "r: 58 c: 36 ... old: white FALSE
## [1] "r: 58 c: 37 ... old: person doing measurements was very accurate FALSE
## [1] "r: 58 c: 38 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 58 c: 39 ... old: 5.4375 TRUE
## [1] " --> 13.81125"
## [1] "r: 58 c: 40 ... old: 12.125
                                   TRUE
## [1] " --> 30.7975"
## [1] "r: 58 c: 41 ... old: 8.875 TRUE
## [1] " --> 22.5425"
## [1] "r: 58 c: 42 ... old: 56.3125 TRUE
## [1] " --> 143.03375"
## [1] "r: 58 c: 43 ... old: 7.4375
## [1] " --> 18.89125"
## [1] "r: 58 c: 44 ... old: 12.125
## [1] " --> 30.7975"
## [1] "r: 58 c: 45 ... old: 26.6875 TRUE
```

```
## [1] " --> 67.78625"
## [1] "r: 58 c: 46 ... old: 35.375 TRUE
## [1] " --> 89.8525"
## [1] "r: 59 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 59 c: 2 ... old: 993be15b8f3ea1fb344718d12c4073fc FALSE
## [1] "r: 59 c: 3 ... old: left FALSE
## [1] "r: 59 c: 4 ... old: 61.125 TRUE
## [1] " --> 155.2575"
## [1] "r: 59 c: 5 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 59 c: 6 ... old: 21.875 TRUE
## [1] " --> 55.5625"
## [1] "r: 59 c: 7 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 59 c: 8 ... old: 7.125 TRUE
## [1] " --> 18.0975"
## [1] "r: 59 c: 9 ... old: 7.0625 TRUE
## [1] " --> 17.93875"
## [1] "r: 59 c: 10 ... old: 7.375 TRUE
## [1] " --> 18.7325"
## [1] "r: 59 c: 11 ... old: 16.125 TRUE
## [1] " --> 40.9575"
## [1] "r: 59 c: 12 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 59 c: 13 ... old: 11.1875 TRUE
## [1] " --> 28.41625"
## [1] "r: 59 c: 14 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 59 c: 15 ... old: 73.75 TRUE
## [1] " --> 187.325"
## [1] "r: 59 c: 16 ... old: 76.5 TRUE
## [1] " --> 194.31"
## [1] "r: 59 c: 17 ... old: 60.875 TRUE
## [1] " --> 154.6225"
## [1] "r: 59 c: 18 ... old: 9.375 TRUE
## [1] " --> 23.8125"
## [1] "r: 59 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 59 c: 20 ... old: 19.375 TRUE
## [1] " --> 49.2125"
## [1] "r: 59 c: 21 ... old: 19.625 TRUE
## [1] " --> 49.8475"
## [1] "r: 59 c: 22 ... old: 36.5 TRUE
## [1] " --> 92.71"
## [1] "r: 59 c: 23 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 59 c: 24 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 59 c: 25 ... old: 49.5 TRUE
## [1] " --> 125.73"
## [1] "r: 59 c: 26 ... old: 49.25 TRUE
## [1] " --> 125.095"
## [1] "r: 59 c: 27 ... old: inches FALSE
## [1] "r: 59 c: 28 ... old: right FALSE
```

```
## [1] "r: 59 c: 29 ... old: left FALSE
## [1] "r: 59 c: 30 ... old: brown FALSE
## [1] "r: 59 c: 31 ... old: right FALSE
## [1] "r: 59 c: 33 ... old: female FALSE
## [1] "r: 59 c: 36 ... old: white FALSE
## [1] "r: 59 c: 37 ... old: person doing measurements was very accurate FALSE
## [1] "r: 59 c: 38 ... old: 7.1875 TRUE
## [1] " --> 18.25625"
## [1] "r: 59 c: 39 ... old: 7.21875 TRUE
## [1] " --> 18.335625"
## [1] "r: 59 c: 40 ... old: 16.0625 TRUE
## [1] " --> 40.79875"
## [1] "r: 59 c: 41 ... old: 11.21875 TRUE
## [1] " --> 28.495625"
## [1] "r: 59 c: 42 ... old: 75.125 TRUE
## [1] " --> 190.8175"
## [1] "r: 59 c: 43 ... old: 9.4375 TRUE
## [1] " --> 23.97125"
## [1] "r: 59 c: 44 ... old: 19.5 TRUE
## [1] " --> 49.53"
## [1] "r: 59 c: 45 ... old: 36.75 TRUE
## [1] " --> 93.345"
## [1] "r: 59 c: 46 ... old: 49.375 TRUE
## [1] " --> 125.4125"
## [1] "r: 60 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 60 c: 2 ... old: ac11025453a44a174b69354845b985d5 FALSE
## [1] "r: 60 c: 3 ... old: left FALSE
## [1] "r: 60 c: 4 ... old: 65.625 TRUE
## [1] " --> 166.6875"
## [1] "r: 60 c: 5 ... old: 8.625 TRUE
## [1] " --> 21.9075"
## [1] "r: 60 c: 6 ... old: 22.125 TRUE
## [1] " --> 56.1975"
## [1] "r: 60 c: 7 ... old: 7.1875 TRUE
## [1] " --> 18.25625"
## [1] "r: 60 c: 8 ... old: 7.125 TRUE
## [1] " --> 18.0975"
## [1] "r: 60 c: 9 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 60 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 60 c: 11 ... old: 17.1875 TRUE
## [1] " --> 43.65625"
## [1] "r: 60 c: 12 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 60 c: 13 ... old: 12.125 TRUE
## [1] " --> 30.7975"
## [1] "r: 60 c: 14 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 60 c: 15 ... old: 75.75 TRUE
## [1] " --> 192.405"
## [1] "r: 60 c: 16 ... old: 74.625
## [1] " --> 189.5475"
## [1] "r: 60 c: 17 ... old: 65.875 TRUE
```

```
## [1] " --> 167.3225"
## [1] "r: 60 c: 18 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 60 c: 19 ... old: 9.875 TRUE
## [1] " --> 25.0825"
## [1] "r: 60 c: 20 ... old: 17.625
                                   TRUE
## [1] " --> 44.7675"
## [1] "r: 60 c: 21 ... old: 17.25 TRUE
## [1] " --> 43.815"
## [1] "r: 60 c: 22 ... old: 37.5 TRUE
## [1] " --> 95.25"
## [1] "r: 60 c: 23 ... old: 37.75 TRUE
## [1] " --> 95.885"
## [1] "r: 60 c: 24 ... old: 36.75 TRUE
## [1] " --> 93.345"
## [1] "r: 60 c: 25 ... old: 54.5 TRUE
## [1] " --> 138.43"
## [1] "r: 60 c: 26 ... old: 54.75 TRUE
## [1] " --> 139.065"
## [1] "r: 60 c: 27 ... old: inches FALSE
## [1] "r: 60 c: 28 ... old: right FALSE
## [1] "r: 60 c: 29 ... old: left FALSE
## [1] "r: 60 c: 30 ... old: brown FALSE
## [1] "r: 60 c: 31 ... old: right FALSE
## [1] "r: 60 c: 33 ... old: female FALSE
## [1] "r: 60 c: 36 ... old: white FALSE
## [1] "r: 60 c: 37 ... old: person doing measurements was very accurate FALSE
## [1] "r: 60 c: 38 ... old: 7.15625 TRUE
## [1] " --> 18.176875"
## [1] "r: 60 c: 39 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 60 c: 40 ... old: 17.09375 TRUE
## [1] " --> 43.418125"
## [1] "r: 60 c: 41 ... old: 12.3125 TRUE
## [1] " --> 31.27375"
## [1] "r: 60 c: 42 ... old: 75.1875
                                     TRUE
## [1] " --> 190.97625"
## [1] "r: 60 c: 43 ... old: 9.8125
## [1] " --> 24.92375"
## [1] "r: 60 c: 44 ... old: 17.4375 TRUE
## [1] " --> 44.29125"
## [1] "r: 60 c: 45 ... old: 37.625 TRUE
## [1] " --> 95.5675"
## [1] "r: 60 c: 46 ... old: 54.625 TRUE
## [1] " --> 138.7475"
## [1] "r: 61 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 61 c: 2 ... old: 21a0357f2ca81fcfc9e5502e6ba4c5de FALSE
## [1] "r: 61 c: 3 ... old: left FALSE
## [1] "r: 61 c: 4 ... old: 62 TRUE
## [1] " --> 157.48"
## [1] "r: 61 c: 5 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 61 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
```

```
## [1] "r: 61 c: 7 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 61 c: 8 ... old: 6.375 TRUE
## [1] " --> 16.1925"
## [1] "r: 61 c: 9 ... old: 7.5625 TRUE
## [1] " --> 19.20875"
## [1] "r: 61 c: 10 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 61 c: 11 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 61 c: 12 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 61 c: 13 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 61 c: 14 ... old: 11.75 TRUE
## [1] " --> 29.845"
## [1] "r: 61 c: 15 ... old: 79 TRUE
## [1] " --> 200.66"
## [1] "r: 61 c: 16 ... old: 80.5 TRUE
## [1] " --> 204.47"
## [1] "r: 61 c: 17 ... old: 62 TRUE
## [1] " --> 157.48"
## [1] "r: 61 c: 18 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 61 c: 19 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 61 c: 20 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 61 c: 21 ... old: 17.375 TRUE
## [1] " --> 44.1325"
## [1] "r: 61 c: 22 ... old: 36.5 TRUE
## [1] " --> 92.71"
## [1] "r: 61 c: 23 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 61 c: 24 ... old: 37
## [1] " --> 93.98"
## [1] "r: 61 c: 25 ... old: 50
## [1] " --> 127"
## [1] "r: 61 c: 26 ... old: 51 TRUE
## [1] " --> 129.54"
## [1] "r: 61 c: 27 ... old: inches FALSE
## [1] "r: 61 c: 28 ... old: right FALSE
## [1] "r: 61 c: 29 ... old: right FALSE
## [1] "r: 61 c: 30 ... old: blue FALSE
## [1] "r: 61 c: 31 ... old: right FALSE
## [1] "r: 61 c: 33 ... old: female FALSE
## [1] "r: 61 c: 36 ... old: white FALSE
## [1] "r: 61 c: 37 ... old: subject had been drinking before taking measurements FALSE
## [1] "r: 61 c: 38 ... old: 6.4375 TRUE
## [1] " --> 16.35125"
## [1] "r: 61 c: 39 ... old: 7.53125 TRUE
## [1] " --> 19.129375"
## [1] "r: 61 c: 40 ... old: 16.875 TRUE
## [1] " --> 42.8625"
```

```
## [1] "r: 61 c: 41 ... old: 11.625 TRUE
## [1] " --> 29.5275"
## [1] "r: 61 c: 42 ... old: 79.75 TRUE
## [1] " --> 202.565"
## [1] "r: 61 c: 43 ... old: 8.875 TRUE
## [1] " --> 22.5425"
## [1] "r: 61 c: 44 ... old: 17.0625 TRUE
## [1] " --> 43.33875"
## [1] "r: 61 c: 45 ... old: 36.75 TRUE
## [1] " --> 93.345"
## [1] "r: 61 c: 46 ... old: 50.5 TRUE
## [1] " --> 128.27"
## [1] "r: 62 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 62 c: 2 ... old: 08982a644b08fcabe920861dcf638039 FALSE
## [1] "r: 62 c: 3 ... old: left FALSE
## [1] "r: 62 c: 4 ... old: 70.5 TRUE
## [1] " --> 179.07"
## [1] "r: 62 c: 5 ... old: 9.125 TRUE
## [1] " --> 23.1775"
## [1] "r: 62 c: 6 ... old: 22.875 TRUE
## [1] " --> 58.1025"
## [1] "r: 62 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 62 c: 8 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 62 c: 9 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 62 c: 10 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 62 c: 11 ... old: 19.125 TRUE
## [1] " --> 48.5775"
## [1] "r: 62 c: 12 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 62 c: 13 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 62 c: 14 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 62 c: 15 ... old: 88.5 TRUE
## [1] " --> 224.79"
## [1] "r: 62 c: 16 ... old: 88 TRUE
## [1] " --> 223.52"
## [1] "r: 62 c: 17 ... old: 72.125 TRUE
## [1] " --> 183.1975"
## [1] "r: 62 c: 18 ... old: 10.25 TRUE
## [1] " --> 26.035"
## [1] "r: 62 c: 19 ... old: 10.25
## [1] " --> 26.035"
## [1] "r: 62 c: 20 ... old: 19.75 TRUE
## [1] " --> 50.165"
## [1] "r: 62 c: 21 ... old: 19.626
## [1] " --> 49.85004"
## [1] "r: 62 c: 22 ... old: 42.25 TRUE
## [1] " --> 107.315"
## [1] "r: 62 c: 23 ... old: 41.875 TRUE
```

```
## [1] " --> 106.3625"
## [1] "r: 62 c: 24 ... old: 40.75 TRUE
## [1] " --> 103.505"
## [1] "r: 62 c: 25 ... old: 57.75 TRUE
## [1] " --> 146.685"
## [1] "r: 62 c: 26 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 62 c: 27 ... old: inches FALSE
## [1] "r: 62 c: 28 ... old: right FALSE
## [1] "r: 62 c: 29 ... old: right FALSE
## [1] "r: 62 c: 30 ... old: green FALSE
## [1] "r: 62 c: 31 ... old: right FALSE
## [1] "r: 62 c: 33 ... old: male FALSE
## [1] "r: 62 c: 36 ... old: white FALSE
## [1] "r: 62 c: 37 ... old: NA FALSE
## [1] "r: 62 c: 38 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 62 c: 39 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 62 c: 40 ... old: 19.1875 TRUE
## [1] " --> 48.73625"
## [1] "r: 62 c: 41 ... old: 12.25
## [1] " --> 31.115"
## [1] "r: 62 c: 42 ... old: 88.25
## [1] " --> 224.155"
## [1] "r: 62 c: 43 ... old: 10.25
## [1] " --> 26.035"
## [1] "r: 62 c: 44 ... old: 19.688 TRUE
## [1] " --> 50.00752"
## [1] "r: 62 c: 45 ... old: 42.0625 TRUE
## [1] " --> 106.83875"
## [1] "r: 62 c: 46 ... old: 57.375 TRUE
## [1] " --> 145.7325"
## [1] "r: 63 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 63 c: 2 ... old: 7aa407c589c49ea3aa49224367f9aad8 FALSE
## [1] "r: 63 c: 3 ... old: left FALSE
## [1] "r: 63 c: 4 ... old: 62.25 TRUE
## [1] " --> 158.115"
## [1] "r: 63 c: 5 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 63 c: 6 ... old: 22.375 TRUE
## [1] " --> 56.8325"
## [1] "r: 63 c: 7 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 63 c: 8 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 63 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 63 c: 10 ... old: 8.125 TRUE
## [1] " --> 20.6375"
## [1] "r: 63 c: 11 ... old: 16.875
                                   TRUE
## [1] " --> 42.8625"
## [1] "r: 63 c: 12 ... old: 17.125 TRUE
## [1] " --> 43.4975"
```

```
## [1] "r: 63 c: 13 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 63 c: 14 ... old: 11.75 TRUE
## [1] " --> 29.845"
## [1] "r: 63 c: 15 ... old: 79 TRUE
## [1] " --> 200.66"
## [1] "r: 63 c: 16 ... old: 79.375 TRUE
## [1] " --> 201.6125"
## [1] "r: 63 c: 17 ... old: 63.25 TRUE
## [1] " --> 160.655"
## [1] "r: 63 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 63 c: 19 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 63 c: 20 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 63 c: 21 ... old: 17.125 TRUE
## [1] " --> 43.4975"
## [1] "r: 63 c: 22 ... old: 37.5 TRUE
## [1] " --> 95.25"
## [1] "r: 63 c: 23 ... old: 37.875 TRUE
## [1] " --> 96.2025"
## [1] "r: 63 c: 24 ... old: 37.75 TRUE
## [1] " --> 95.885"
## [1] "r: 63 c: 25 ... old: 52.25 TRUE
## [1] " --> 132.715"
## [1] "r: 63 c: 26 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 63 c: 27 ... old: inches FALSE
## [1] "r: 63 c: 28 ... old: right FALSE
## [1] "r: 63 c: 29 ... old: left FALSE
## [1] "r: 63 c: 30 ... old: blue FALSE
## [1] "r: 63 c: 31 ... old: right FALSE
## [1] "r: 63 c: 33 ... old: female FALSE
## [1] "r: 63 c: 36 ... old: white FALSE
## [1] "r: 63 c: 37 ... old: has some native american FALSE
## [1] "r: 63 c: 38 ... old: 6.8125 TRUE
## [1] " --> 17.30375"
## [1] "r: 63 c: 39 ... old: 8.0625 TRUE
## [1] " --> 20.47875"
## [1] "r: 63 c: 40 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 63 c: 41 ... old: 11.625 TRUE
## [1] " --> 29.5275"
## [1] "r: 63 c: 42 ... old: 79.1875 TRUE
## [1] " --> 201.13625"
## [1] "r: 63 c: 43 ... old: 9.375 TRUE
## [1] " --> 23.8125"
## [1] "r: 63 c: 44 ... old: 17.0625 TRUE
## [1] " --> 43.33875"
## [1] "r: 63 c: 45 ... old: 37.6875 TRUE
## [1] " --> 95.72625"
## [1] "r: 63 c: 46 ... old: 52.125 TRUE
## [1] " --> 132.3975"
```

```
## [1] "r: 64 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 64 c: 2 ... old: 789951a2bbfbf299b0822cc8452f236f FALSE
## [1] "r: 64 c: 3 ... old: left FALSE
## [1] "r: 64 c: 4 ... old: 69.75 TRUE
## [1] " --> 177.165"
## [1] "r: 64 c: 5 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 64 c: 6 ... old: 22.25
                                 TRUE
## [1] " --> 56.515"
## [1] "r: 64 c: 7 ... old: 7.625 TRUE
## [1] " --> 19.3675"
## [1] "r: 64 c: 8 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 64 c: 9 ... old: 8.625 TRUE
## [1] " --> 21.9075"
## [1] "r: 64 c: 10 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 64 c: 11 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 64 c: 12 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 64 c: 13 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 64 c: 14 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 64 c: 15 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 64 c: 16 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 64 c: 17 ... old: 72.5 TRUE
## [1] " --> 184.15"
## [1] "r: 64 c: 18 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 64 c: 19 ... old: 11.25
## [1] " --> 28.575"
## [1] "r: 64 c: 20 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 64 c: 21 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 64 c: 22 ... old: 41.25 TRUE
## [1] " --> 104.775"
## [1] "r: 64 c: 23 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 64 c: 24 ... old: 41.25 TRUE
## [1] " --> 104.775"
## [1] "r: 64 c: 25 ... old: 58 TRUE
## [1] " --> 147.32"
## [1] "r: 64 c: 26 ... old: 57.5 TRUE "
## [1] " --> 146.05"
## [1] "r: 64 c: 27 ... old: inches FALSE
## [1] "r: 64 c: 28 ... old: right FALSE
## [1] "r: 64 c: 29 ... old: right FALSE
## [1] "r: 64 c: 30 ... old: blue/green FALSE
## [1] "r: 64 c: 31 ... old: right FALSE
```

```
## [1] "r: 64 c: 33 ... old: male FALSE
## [1] "r: 64 c: 36 ... old: white FALSE
## [1] "r: 64 c: 37 ... old: has some native american FALSE
## [1] "r: 64 c: 38 ... old: 7.5625 TRUE
## [1] " --> 19.20875"
## [1] "r: 64 c: 39 ... old: 8.5625 TRUE
## [1] " --> 21.74875"
## [1] "r: 64 c: 40 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 64 c: 41 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 64 c: 42 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 64 c: 43 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 64 c: 44 ... old: 19.125 TRUE
## [1] " --> 48.5775"
## [1] "r: 64 c: 45 ... old: 41.125 TRUE
## [1] " --> 104.4575"
## [1] "r: 64 c: 46 ... old: 57.75 TRUE
## [1] " --> 146.685"
## [1] "r: 65 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 65 c: 2 ... old: e4a78a4c43790b174d1132cc72ff8829 FALSE
## [1] "r: 65 c: 3 ... old: left FALSE
                                        - 11
## [1] "r: 65 c: 4 ... old: 44.75 TRUE
## [1] " --> 113.665"
## [1] "r: 65 c: 5 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 65 c: 6 ... old: 19.5 TRUE
## [1] " --> 49.53"
## [1] "r: 65 c: 7 ... old: 4.875 TRUE
## [1] " --> 12.3825"
## [1] "r: 65 c: 8 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 65 c: 9 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 65 c: 10 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 65 c: 11 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 65 c: 12 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 65 c: 13 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 65 c: 14 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 65 c: 15 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 65 c: 16 ... old: 54.5 TRUE
## [1] " --> 138.43"
## [1] "r: 65 c: 17 ... old: 43.125 TRUE
## [1] " --> 109.5375"
## [1] "r: 65 c: 18 ... old: 6.25 TRUE
## [1] " --> 15.875"
```

```
## [1] "r: 65 c: 19 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 65 c: 20 ... old: 12.875 TRUE
## [1] " --> 32.7025"
## [1] "r: 65 c: 21 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 65 c: 22 ... old: 25.75 TRUE
## [1] " --> 65.405"
## [1] "r: 65 c: 23 ... old: 25.5 TRUE
## [1] " --> 64.77"
## [1] "r: 65 c: 24 ... old: 25.875 TRUE
## [1] " --> 65.7225"
## [1] "r: 65 c: 25 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 65 c: 26 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 65 c: 27 ... old: inches FALSE
## [1] "r: 65 c: 28 ... old: left FALSE
## [1] "r: 65 c: 29 ... old: right FALSE
## [1] "r: 65 c: 30 ... old: blue FALSE
## [1] "r: 65 c: 31 ... old: left FALSE
## [1] "r: 65 c: 33 ... old: female FALSE
## [1] "r: 65 c: 36 ... old: white FALSE
## [1] "r: 65 c: 37 ... old: Very good subject to measure FALSE
## [1] "r: 65 c: 38 ... old: 4.9375 TRUE
## [1] " --> 12.54125"
## [1] "r: 65 c: 39 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 65 c: 40 ... old: 11.125 TRUE
## [1] " --> 28.2575"
## [1] "r: 65 c: 41 ... old: 7.125 TRUE
## [1] " --> 18.0975"
## [1] "r: 65 c: 42 ... old: 54.25
## [1] " --> 137.795"
## [1] "r: 65 c: 43 ... old: 6.375
## [1] " --> 16.1925"
## [1] "r: 65 c: 44 ... old: 12.9375 TRUE
## [1] " --> 32.86125"
## [1] "r: 65 c: 45 ... old: 25.625 TRUE
## [1] " --> 65.0875"
## [1] "r: 65 c: 46 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 66 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 66 c: 2 ... old: 02fd0c9a5c0a52e64e487541c668dbb8 FALSE
## [1] "r: 66 c: 3 ... old: left FALSE
## [1] "r: 66 c: 4 ... old: 47.75 TRUE
## [1] " --> 121.285"
## [1] "r: 66 c: 5 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 66 c: 6 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 66 c: 7 ... old: 5.25 TRUE
## [1] " --> 13.335"
## [1] "r: 66 c: 8 ... old: 5.125 TRUE
```

```
## [1] " --> 13.0175"
## [1] "r: 66 c: 9 ... old: 5.875 TRUE
## [1] " --> 14.9225"
## [1] "r: 66 c: 10 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 66 c: 11 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 66 c: 12 ... old: 12.75 TRUE
## [1] " --> 32.385"
## [1] "r: 66 c: 13 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 66 c: 14 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 66 c: 15 ... old: 57.5 TRUE
## [1] " --> 146.05"
## [1] "r: 66 c: 16 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 66 c: 17 ... old: 46.25 TRUE
## [1] " --> 117.475"
## [1] "r: 66 c: 18 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 66 c: 19 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 66 c: 20 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 66 c: 21 ... old: 12.375 TRUE
## [1] " --> 31.4325"
## [1] "r: 66 c: 22 ... old: 27.25 TRUE
## [1] " --> 69.215"
## [1] "r: 66 c: 23 ... old: 27 TRUE
## [1] " --> 68.58"
## [1] "r: 66 c: 24 ... old: 27.625 TRUE
## [1] " --> 70.1675"
## [1] "r: 66 c: 25 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 66 c: 26 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 66 c: 27 ... old: inches FALSE
## [1] "r: 66 c: 28 ... old: right FALSE
## [1] "r: 66 c: 29 ... old: left FALSE
## [1] "r: 66 c: 30 ... old: brown FALSE
## [1] "r: 66 c: 31 ... old: right FALSE
## [1] "r: 66 c: 33 ... old: female FALSE
## [1] "r: 66 c: 36 ... old: white FALSE
## [1] "r: 66 c: 37 ... old: a bit wiggly
## [1] "r: 66 c: 38 ... old: 5.1875 TRUE
## [1] " --> 13.17625"
## [1] "r: 66 c: 39 ... old: 5.9375 TRUE
## [1] " --> 15.08125"
## [1] "r: 66 c: 40 ... old: 12.625 TRUE
## [1] " --> 32.0675"
## [1] "r: 66 c: 41 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 66 c: 42 ... old: 57.25 TRUE
```

```
## [1] " --> 145.415"
## [1] "r: 66 c: 43 ... old: 7.375 TRUE
## [1] " --> 18.7325"
## [1] "r: 66 c: 44 ... old: 12.4375 TRUE
## [1] " --> 31.59125"
## [1] "r: 66 c: 45 ... old: 27.125 TRUE
## [1] " --> 68.8975"
## [1] "r: 66 c: 46 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 67 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 67 c: 2 ... old: 9f719255d46dd8b9b07935d891dc5295 FALSE
## [1] "r: 67 c: 3 ... old: left FALSE
## [1] "r: 67 c: 4 ... old: 71.5
## [1] " --> 181.61"
## [1] "r: 67 c: 5 ... old: 9.25
                                 TRUE
## [1] " --> 23.495"
## [1] "r: 67 c: 6 ... old: 23.5 TRUE
## [1] " --> 59.69"
## [1] "r: 67 c: 7 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 67 c: 8 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 67 c: 9 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 67 c: 10 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 67 c: 11 ... old: 19.25
                                    TRUE
## [1] " --> 48.895"
## [1] "r: 67 c: 12 ... old: 19.25
                                    TRUE
## [1] " --> 48.895"
## [1] "r: 67 c: 13 ... old: 12.25
                                    TRUE
## [1] " --> 31.115"
## [1] "r: 67 c: 14 ... old: 12.75
                                    TRUE
## [1] " --> 32.385"
## [1] "r: 67 c: 15 ... old: 87.25
## [1] " --> 221.615"
## [1] "r: 67 c: 16 ... old: 87.5 TRUE
## [1] " --> 222.25"
## [1] "r: 67 c: 17 ... old: 71.75 TRUE
## [1] " --> 182.245"
## [1] "r: 67 c: 18 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 67 c: 19 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 67 c: 20 ... old: 19.875
## [1] " --> 50.4825"
## [1] "r: 67 c: 21 ... old: 19.875
                                    TRUE
## [1] " --> 50.4825"
## [1] "r: 67 c: 22 ... old: 42.625
                                    TRUE
## [1] " --> 108.2675"
## [1] "r: 67 c: 23 ... old: 42.75 TRUE
## [1] " --> 108.585"
## [1] "r: 67 c: 24 ... old: 42.625 TRUE
## [1] " --> 108.2675"
```

```
## [1] "r: 67 c: 25 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 67 c: 26 ... old: 56.875 TRUE
## [1] " --> 144.4625"
## [1] "r: 67 c: 27 ... old: inches FALSE
## [1] "r: 67 c: 28 ... old: right FALSE
## [1] "r: 67 c: 29 ... old: left FALSE
## [1] "r: 67 c: 30 ... old: hazel FALSE
## [1] "r: 67 c: 31 ... old: right FALSE
## [1] "r: 67 c: 33 ... old: male FALSE
## [1] "r: 67 c: 36 ... old: white FALSE
## [1] "r: 67 c: 37 ... old: NA FALSE
## [1] "r: 67 c: 38 ... old: 7.8125 TRUE
## [1] " --> 19.84375"
## [1] "r: 67 c: 39 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 67 c: 40 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 67 c: 41 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 67 c: 42 ... old: 87.375 TRUE
## [1] " --> 221.9325"
## [1] "r: 67 c: 43 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 67 c: 44 ... old: 19.875 TRUE
## [1] " --> 50.4825"
## [1] "r: 67 c: 45 ... old: 42.6875 TRUE
## [1] " --> 108.42625"
## [1] "r: 67 c: 46 ... old: 56.9375 TRUE
## [1] " --> 144.62125"
## [1] "r: 68 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 68 c: 2 ... old: 06101d4bde60d0ea415206d4ba04572c FALSE
## [1] "r: 68 c: 3 ... old: left FALSE
## [1] "r: 68 c: 4 ... old: 63.5 TRUE
## [1] " --> 161.29"
## [1] "r: 68 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 68 c: 6 ... old: 21.5 TRUE
## [1] " --> 54.61"
## [1] "r: 68 c: 7 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 68 c: 8 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 68 c: 9 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 68 c: 10 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 68 c: 11 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 68 c: 12 ... old: 16.25
## [1] " --> 41.275"
## [1] "r: 68 c: 13 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 68 c: 14 ... old: 12 TRUE
```

```
## [1] " --> 30.48"
## [1] "r: 68 c: 15 ... old: 80.5 TRUE
## [1] " --> 204.47"
## [1] "r: 68 c: 16 ... old: 78.75
## [1] " --> 200.025"
## [1] "r: 68 c: 17 ... old: 63.25
                                   TRUE
## [1] " --> 160.655"
## [1] "r: 68 c: 18 ... old: 8.875
                                   TRUE
## [1] " --> 22.5425"
## [1] "r: 68 c: 19 ... old: 8.625
## [1] " --> 21.9075"
## [1] "r: 68 c: 20 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 68 c: 21 ... old: 17.25 TRUE
## [1] " --> 43.815"
## [1] "r: 68 c: 22 ... old: 38.25
## [1] " --> 97.155"
## [1] "r: 68 c: 23 ... old: 38.25
## [1] " --> 97.155"
## [1] "r: 68 c: 24 ... old: 38.5 TRUE
## [1] " --> 97.79"
## [1] "r: 68 c: 25 ... old: 51.75
## [1] " --> 131.445"
## [1] "r: 68 c: 26 ... old: 51.5 TRUE
## [1] " --> 130.81"
## [1] "r: 68 c: 27 ... old: inches FALSE
## [1] "r: 68 c: 28 ... old: left FALSE
## [1] "r: 68 c: 29 ... old: right FALSE
## [1] "r: 68 c: 30 ... old: green FALSE
## [1] "r: 68 c: 31 ... old: left FALSE
## [1] "r: 68 c: 33 ... old: female FALSE
## [1] "r: 68 c: 36 ... old: white FALSE
## [1] "r: 68 c: 37 ... old: has some native american FALSE
## [1] "r: 68 c: 38 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 68 c: 39 ... old: 7.6875
                                    TRUE
## [1] " --> 19.52625"
## [1] "r: 68 c: 40 ... old: 16.375
                                   TRUE
## [1] " --> 41.5925"
## [1] "r: 68 c: 41 ... old: 11.75 TRUE
## [1] " --> 29.845"
## [1] "r: 68 c: 42 ... old: 79.625 TRUE
## [1] " --> 202.2475"
## [1] "r: 68 c: 43 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 68 c: 44 ... old: 17.125 TRUE
## [1] " --> 43.4975"
## [1] "r: 68 c: 45 ... old: 38.25 TRUE
## [1] " --> 97.155"
## [1] "r: 68 c: 46 ... old: 51.625 TRUE
## [1] " --> 131.1275"
## [1] "r: 69 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 69 c: 2 ... old: 7a0dee5e063bbcbcd68e6e60eb0d8ac2 FALSE
## [1] "r: 69 c: 3 ... old: left FALSE "
```

```
## [1] "r: 69 c: 4 ... old: 45 TRUE
## [1] " --> 114.3"
## [1] "r: 69 c: 5 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 69 c: 6 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 69 c: 7 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 69 c: 8 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 69 c: 9 ... old: 5.375 TRUE
## [1] " --> 13.6525"
## [1] "r: 69 c: 10 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 69 c: 11 ... old: 12.125 TRUE
## [1] " --> 30.7975"
## [1] "r: 69 c: 12 ... old: 12.125 TRUE
## [1] " --> 30.7975"
## [1] "r: 69 c: 13 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 69 c: 14 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 69 c: 15 ... old: 56.625 TRUE
## [1] " --> 143.8275"
## [1] "r: 69 c: 16 ... old: 56 TRUE
## [1] " --> 142.24"
## [1] "r: 69 c: 17 ... old: 45.625 TRUE
## [1] " --> 115.8875"
## [1] "r: 69 c: 18 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 69 c: 19 ... old: 7.375 TRUE
## [1] " --> 18.7325"
## [1] "r: 69 c: 20 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 69 c: 21 ... old: 12.25 TRUE
## [1] " --> 31.115"
## [1] "r: 69 c: 22 ... old: 26.625 TRUE
## [1] " --> 67.6275"
## [1] "r: 69 c: 23 ... old: 26.75 TRUE
## [1] " --> 67.945"
## [1] "r: 69 c: 24 ... old: 25.625 TRUE
## [1] " --> 65.0875"
## [1] "r: 69 c: 25 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 69 c: 26 ... old: 35.25 TRUE
## [1] " --> 89.535"
## [1] "r: 69 c: 27 ... old: inches FALSE
## [1] "r: 69 c: 28 ... old: right FALSE
## [1] "r: 69 c: 29 ... old: right FALSE
## [1] "r: 69 c: 30 ... old: hazel FALSE
## [1] "r: 69 c: 31 ... old: left FALSE
## [1] "r: 69 c: 33 ... old: female FALSE
## [1] "r: 69 c: 36 ... old: white FALSE
## [1] "r: 69 c: 37 ... old: person doing measurements was very accurate FALSE
```

```
## [1] "r: 69 c: 38 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 69 c: 39 ... old: 5.4375 TRUE
## [1] " --> 13.81125"
## [1] "r: 69 c: 40 ... old: 12.125
## [1] " --> 30.7975"
## [1] "r: 69 c: 41 ... old: 8.875 TRUE
## [1] " --> 22.5425"
## [1] "r: 69 c: 42 ... old: 56.3125 TRUE
## [1] " --> 143.03375"
## [1] "r: 69 c: 43 ... old: 7.4375
## [1] " --> 18.89125"
## [1] "r: 69 c: 44 ... old: 12.125
                                    TRUE
## [1] " --> 30.7975"
## [1] "r: 69 c: 45 ... old: 26.6875 TRUE
## [1] " --> 67.78625"
## [1] "r: 69 c: 46 ... old: 35.375 TRUE
## [1] " --> 89.8525"
## [1] "r: 70 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 70 c: 2 ... old: 993be15b8f3ea1fb344718d12c4073fc FALSE
## [1] "r: 70 c: 3 ... old: left FALSE
## [1] "r: 70 c: 4 ... old: 61.125 TRUE
## [1] " --> 155.2575"
## [1] "r: 70 c: 5 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 70 c: 6 ... old: 21.875 TRUE
## [1] " --> 55.5625"
## [1] "r: 70 c: 7 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 70 c: 8 ... old: 7.125 TRUE
## [1] " --> 18.0975"
## [1] "r: 70 c: 9 ... old: 7.0625 TRUE
## [1] " --> 17.93875"
## [1] "r: 70 c: 10 ... old: 7.375 TRUE
## [1] " --> 18.7325"
## [1] "r: 70 c: 11 ... old: 16.125 TRUE
## [1] " --> 40.9575"
## [1] "r: 70 c: 12 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 70 c: 13 ... old: 11.1875 TRUE
## [1] " --> 28.41625"
## [1] "r: 70 c: 14 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 70 c: 15 ... old: 73.75 TRUE
## [1] " --> 187.325"
## [1] "r: 70 c: 16 ... old: 76.5 TRUE
## [1] " --> 194.31"
## [1] "r: 70 c: 17 ... old: 60.875 TRUE
## [1] " --> 154.6225"
## [1] "r: 70 c: 18 ... old: 9.375 TRUE
## [1] " --> 23.8125"
## [1] "r: 70 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 70 c: 20 ... old: 19.375 TRUE
```

```
## [1] " --> 49.2125"
## [1] "r: 70 c: 21 ... old: 19.625 TRUE
## [1] " --> 49.8475"
## [1] "r: 70 c: 22 ... old: 36.5 TRUE
## [1] " --> 92.71"
## [1] "r: 70 c: 23 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 70 c: 24 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 70 c: 25 ... old: 49.5 TRUE
## [1] " --> 125.73"
## [1] "r: 70 c: 26 ... old: 49.25 TRUE
## [1] " --> 125.095"
## [1] "r: 70 c: 27 ... old: inches FALSE
## [1] "r: 70 c: 28 ... old: right FALSE
## [1] "r: 70 c: 29 ... old: left FALSE
## [1] "r: 70 c: 30 ... old: brown FALSE
## [1] "r: 70 c: 31 ... old: right FALSE
## [1] "r: 70 c: 33 ... old: female FALSE
## [1] "r: 70 c: 36 ... old: white FALSE
## [1] "r: 70 c: 37 ... old: person doing measurements was very accurate FALSE
## [1] "r: 70 c: 38 ... old: 7.1875 TRUE
## [1] " --> 18.25625"
## [1] "r: 70 c: 39 ... old: 7.21875 TRUE
## [1] " --> 18.335625"
## [1] "r: 70 c: 40 ... old: 16.0625 TRUE
## [1] " --> 40.79875"
## [1] "r: 70 c: 41 ... old: 11.21875 TRUE
## [1] " --> 28.495625"
## [1] "r: 70 c: 42 ... old: 75.125 TRUE
## [1] " --> 190.8175"
## [1] "r: 70 c: 43 ... old: 9.4375 TRUE
## [1] " --> 23.97125"
## [1] "r: 70 c: 44 ... old: 19.5 TRUE
## [1] " --> 49.53"
## [1] "r: 70 c: 45 ... old: 36.75 TRUE
## [1] " --> 93.345"
## [1] "r: 70 c: 46 ... old: 49.375 TRUE
## [1] " --> 125.4125"
## [1] "r: 71 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 71 c: 2 ... old: ac11025453a44a174b69354845b985d5 FALSE
## [1] "r: 71 c: 3 ... old: left FALSE
## [1] "r: 71 c: 4 ... old: 65.625 TRUE
## [1] " --> 166.6875"
## [1] "r: 71 c: 5 ... old: 8.625
## [1] " --> 21.9075"
## [1] "r: 71 c: 6 ... old: 22.125 TRUE
## [1] " --> 56.1975"
## [1] "r: 71 c: 7 ... old: 7.1875 TRUE
## [1] " --> 18.25625"
## [1] "r: 71 c: 8 ... old: 7.125 TRUE
## [1] " --> 18.0975"
## [1] "r: 71 c: 9 ... old: 8.5 TRUE
## [1] " --> 21.59"
```

```
## [1] "r: 71 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 71 c: 11 ... old: 17.1875 TRUE
## [1] " --> 43.65625"
## [1] "r: 71 c: 12 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 71 c: 13 ... old: 12.125 TRUE
## [1] " --> 30.7975"
## [1] "r: 71 c: 14 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 71 c: 15 ... old: 75.75 TRUE
## [1] " --> 192.405"
## [1] "r: 71 c: 16 ... old: 74.625
                                    TRUE
## [1] " --> 189.5475"
## [1] "r: 71 c: 17 ... old: 65.875 TRUE
## [1] " --> 167.3225"
## [1] "r: 71 c: 18 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 71 c: 19 ... old: 9.875 TRUE
## [1] " --> 25.0825"
## [1] "r: 71 c: 20 ... old: 17.625 TRUE
## [1] " --> 44.7675"
## [1] "r: 71 c: 21 ... old: 17.25 TRUE
## [1] " --> 43.815"
## [1] "r: 71 c: 22 ... old: 37.5 TRUE
## [1] " --> 95.25"
## [1] "r: 71 c: 23 ... old: 37.75
## [1] " --> 95.885"
## [1] "r: 71 c: 24 ... old: 36.75
                                   TRUE
## [1] " --> 93.345"
## [1] "r: 71 c: 25 ... old: 54.5 TRUE
## [1] " --> 138.43"
## [1] "r: 71 c: 26 ... old: 54.75 TRUE
## [1] " --> 139.065"
## [1] "r: 71 c: 27 ... old: inches FALSE
## [1] "r: 71 c: 28 ... old: right FALSE
## [1] "r: 71 c: 29 ... old: left FALSE
## [1] "r: 71 c: 30 ... old: brown FALSE
## [1] "r: 71 c: 31 ... old: right FALSE
## [1] "r: 71 c: 33 ... old: female FALSE
## [1] "r: 71 c: 36 ... old: white FALSE
## [1] "r: 71 c: 37 ... old: person doing measurements was very accurate FALSE
## [1] "r: 71 c: 38 ... old: 7.15625 TRUE
## [1] " --> 18.176875"
## [1] "r: 71 c: 39 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 71 c: 40 ... old: 17.09375 TRUE
## [1] " --> 43.418125"
## [1] "r: 71 c: 41 ... old: 12.3125 TRUE
## [1] " --> 31.27375"
## [1] "r: 71 c: 42 ... old: 75.1875 TRUE
## [1] " --> 190.97625"
## [1] "r: 71 c: 43 ... old: 9.8125 TRUE
## [1] " --> 24.92375"
```

```
## [1] "r: 71 c: 44 ... old: 17.4375 TRUE
## [1] " --> 44.29125"
## [1] "r: 71 c: 45 ... old: 37.625 TRUE
## [1] " --> 95.5675"
## [1] "r: 71 c: 46 ... old: 54.625 TRUE
## [1] " --> 138.7475"
## [1] "r: 72 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 72 c: 2 ... old: 21a0357f2ca81fcfc9e5502e6ba4c5de FALSE
## [1] "r: 72 c: 3 ... old: left FALSE "
## [1] "r: 72 c: 4 ... old: 62 TRUE
## [1] " --> 157.48"
## [1] "r: 72 c: 5 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 72 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 72 c: 7 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 72 c: 8 ... old: 6.375 TRUE
## [1] " --> 16.1925"
## [1] "r: 72 c: 9 ... old: 7.5625 TRUE
## [1] " --> 19.20875"
## [1] "r: 72 c: 10 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 72 c: 11 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 72 c: 12 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 72 c: 13 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 72 c: 14 ... old: 11.75 TRUE
## [1] " --> 29.845"
## [1] "r: 72 c: 15 ... old: 79 TRUE
## [1] " --> 200.66"
## [1] "r: 72 c: 16 ... old: 80.5 TRUE
## [1] " --> 204.47"
## [1] "r: 72 c: 17 ... old: 62 TRUE
## [1] " --> 157.48"
## [1] "r: 72 c: 18 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 72 c: 19 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 72 c: 20 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 72 c: 21 ... old: 17.375 TRUE
## [1] " --> 44.1325"
## [1] "r: 72 c: 22 ... old: 36.5 TRUE
## [1] " --> 92.71"
## [1] "r: 72 c: 23 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 72 c: 24 ... old: 37
                                TRUE
## [1] " --> 93.98"
## [1] "r: 72 c: 25 ... old: 50
## [1] " --> 127"
## [1] "r: 72 c: 26 ... old: 51 TRUE
```

```
## [1] " --> 129.54"
## [1] "r: 72 c: 27 ... old: inches FALSE
## [1] "r: 72 c: 28 ... old: right FALSE
## [1] "r: 72 c: 29 ... old: right FALSE
## [1] "r: 72 c: 30 ... old: blue FALSE
## [1] "r: 72 c: 31 ... old: right FALSE
## [1] "r: 72 c: 33 ... old: female FALSE
## [1] "r: 72 c: 36 ... old: white FALSE
## [1] "r: 72 c: 37 ... old: subject had been drinking before taking measurements FALSE
## [1] "r: 72 c: 38 ... old: 6.4375 TRUE
## [1] " --> 16.35125"
## [1] "r: 72 c: 39 ... old: 7.53125 TRUE
## [1] " --> 19.129375"
## [1] "r: 72 c: 40 ... old: 16.875 TRUE
## [1] " --> 42.8625"
## [1] "r: 72 c: 41 ... old: 11.625 TRUE
## [1] " --> 29.5275"
## [1] "r: 72 c: 42 ... old: 79.75
## [1] " --> 202.565"
## [1] "r: 72 c: 43 ... old: 8.875
## [1] " --> 22.5425"
## [1] "r: 72 c: 44 ... old: 17.0625 TRUE
## [1] " --> 43.33875"
## [1] "r: 72 c: 45 ... old: 36.75 TRUE
## [1] " --> 93.345"
## [1] "r: 72 c: 46 ... old: 50.5 TRUE
## [1] " --> 128.27"
## [1] "r: 73 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 73 c: 2 ... old: 08982a644b08fcabe920861dcf638039 FALSE
## [1] "r: 73 c: 3 ... old: left FALSE
## [1] "r: 73 c: 4 ... old: 70.5 TRUE
## [1] " --> 179.07"
## [1] "r: 73 c: 5 ... old: 9.125 TRUE
## [1] " --> 23.1775"
## [1] "r: 73 c: 6 ... old: 22.875 TRUE
## [1] " --> 58.1025"
## [1] "r: 73 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 73 c: 8 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 73 c: 9 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 73 c: 10 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 73 c: 11 ... old: 19.125
                                    TRUE
## [1] " --> 48.5775"
## [1] "r: 73 c: 12 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 73 c: 13 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 73 c: 14 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 73 c: 15 ... old: 88.5 TRUE
## [1] " --> 224.79"
```

```
## [1] "r: 73 c: 16 ... old: 88 TRUE
## [1] " --> 223.52"
## [1] "r: 73 c: 17 ... old: 72.125 TRUE
## [1] " --> 183.1975"
## [1] "r: 73 c: 18 ... old: 10.25
## [1] " --> 26.035"
## [1] "r: 73 c: 19 ... old: 10.25
## [1] " --> 26.035"
## [1] "r: 73 c: 20 ... old: 19.75 TRUE
## [1] " --> 50.165"
## [1] "r: 73 c: 21 ... old: 19.626
                                    TRUE
## [1] " --> 49.85004"
## [1] "r: 73 c: 22 ... old: 42.25 TRUE
## [1] " --> 107.315"
## [1] "r: 73 c: 23 ... old: 41.875 TRUE
## [1] " --> 106.3625"
## [1] "r: 73 c: 24 ... old: 40.75 TRUE
## [1] " --> 103.505"
## [1] "r: 73 c: 25 ... old: 57.75 TRUE
## [1] " --> 146.685"
## [1] "r: 73 c: 26 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 73 c: 27 ... old: inches FALSE
## [1] "r: 73 c: 28 ... old: right FALSE
## [1] "r: 73 c: 29 ... old: right FALSE
## [1] "r: 73 c: 30 ... old: green FALSE
## [1] "r: 73 c: 31 ... old: right FALSE
## [1] "r: 73 c: 33 ... old: male FALSE
## [1] "r: 73 c: 36 ... old: white FALSE
## [1] "r: 73 c: 37 ... old: NA FALSE
## [1] "r: 73 c: 38 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 73 c: 39 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 73 c: 40 ... old: 19.1875 TRUE
## [1] " --> 48.73625"
## [1] "r: 73 c: 41 ... old: 12.25 TRUE
## [1] " --> 31.115"
## [1] "r: 73 c: 42 ... old: 88.25
## [1] " --> 224.155"
## [1] "r: 73 c: 43 ... old: 10.25
## [1] " --> 26.035"
## [1] "r: 73 c: 44 ... old: 19.688
## [1] " --> 50.00752"
## [1] "r: 73 c: 45 ... old: 42.0625
## [1] " --> 106.83875"
## [1] "r: 73 c: 46 ... old: 57.375 TRUE
## [1] " --> 145.7325"
## [1] "r: 74 c: 1 ... old: fd36e2b3ec59dbd996587454cbb59725 FALSE
## [1] "r: 74 c: 2 ... old: 7aa407c589c49ea3aa49224367f9aad8 FALSE
## [1] "r: 74 c: 3 ... old: left FALSE
## [1] "r: 74 c: 4 ... old: 62.25 TRUE
## [1] " --> 158.115"
## [1] "r: 74 c: 5 ... old: 8.75 TRUE
```

```
## [1] " --> 22.225"
## [1] "r: 74 c: 6 ... old: 22.375 TRUE
## [1] " --> 56.8325"
## [1] "r: 74 c: 7 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 74 c: 8 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 74 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 74 c: 10 ... old: 8.125 TRUE
## [1] " --> 20.6375"
## [1] "r: 74 c: 11 ... old: 16.875 TRUE
## [1] " --> 42.8625"
## [1] "r: 74 c: 12 ... old: 17.125 TRUE
## [1] " --> 43.4975"
## [1] "r: 74 c: 13 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 74 c: 14 ... old: 11.75 TRUE
## [1] " --> 29.845"
## [1] "r: 74 c: 15 ... old: 79 TRUE
## [1] " --> 200.66"
## [1] "r: 74 c: 16 ... old: 79.375 TRUE
## [1] " --> 201.6125"
## [1] "r: 74 c: 17 ... old: 63.25 TRUE
## [1] " --> 160.655"
## [1] "r: 74 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 74 c: 19 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 74 c: 20 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 74 c: 21 ... old: 17.125 TRUE
## [1] " --> 43.4975"
## [1] "r: 74 c: 22 ... old: 37.5 TRUE
## [1] " --> 95.25"
## [1] "r: 74 c: 23 ... old: 37.875 TRUE
## [1] " --> 96.2025"
## [1] "r: 74 c: 24 ... old: 37.75 TRUE
## [1] " --> 95.885"
## [1] "r: 74 c: 25 ... old: 52.25 TRUE
## [1] " --> 132.715"
## [1] "r: 74 c: 26 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 74 c: 27 ... old: inches FALSE
## [1] "r: 74 c: 28 ... old: right FALSE
## [1] "r: 74 c: 29 ... old: left FALSE
## [1] "r: 74 c: 30 ... old: blue FALSE
## [1] "r: 74 c: 31 ... old: right FALSE
## [1] "r: 74 c: 33 ... old: female FALSE
## [1] "r: 74 c: 36 ... old: white FALSE
## [1] "r: 74 c: 37 ... old: has some native american FALSE
## [1] "r: 74 c: 38 ... old: 6.8125 TRUE
## [1] " --> 17.30375"
## [1] "r: 74 c: 39 ... old: 8.0625 TRUE
```

```
## [1] " --> 20.47875"
## [1] "r: 74 c: 40 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 74 c: 41 ... old: 11.625 TRUE
## [1] " --> 29.5275"
## [1] "r: 74 c: 42 ... old: 79.1875 TRUE
## [1] " --> 201.13625"
## [1] "r: 74 c: 43 ... old: 9.375 TRUE
## [1] " --> 23.8125"
## [1] "r: 74 c: 44 ... old: 17.0625 TRUE
## [1] " --> 43.33875"
## [1] "r: 74 c: 45 ... old: 37.6875 TRUE
## [1] " --> 95.72625"
## [1] "r: 74 c: 46 ... old: 52.125 TRUE
## [1] " --> 132.3975"
## [1] "r: 97 c: 1 ... old: 253a0d24ddff7cbe1b9f621870d9d198 FALSE
## [1] "r: 97 c: 2 ... old: ac56ebdc4dda8269a4a2b52a1d6c7850 FALSE
## [1] "r: 97 c: 3 ... old: right FALSE
## [1] "r: 97 c: 4 ... old: 69 TRUE
## [1] " --> 175.26"
## [1] "r: 97 c: 5 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 97 c: 6 ... old: 23.2 TRUE
## [1] " --> 58.928"
## [1] "r: 97 c: 7 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 97 c: 8 ... old: 7.6 TRUE
## [1] " --> 19.304"
## [1] "r: 97 c: 9 ... old: 8.3 TRUE
## [1] " --> 21.082"
## [1] "r: 97 c: 10 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 97 c: 11 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 97 c: 12 ... old: 11.4 TRUE
## [1] " --> 28.956"
## [1] "r: 97 c: 13 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 97 c: 14 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 97 c: 15 ... old: 86.25
## [1] " --> 219.075"
## [1] "r: 97 c: 16 ... old: 86.25
## [1] " --> 219.075"
## [1] "r: 97 c: 17 ... old: 70.75
## [1] " --> 179.705"
## [1] "r: 97 c: 18 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 97 c: 19 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 97 c: 20 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 97 c: 21 ... old: 18 TRUE
## [1] " --> 45.72"
```

```
## [1] "r: 97 c: 22 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 97 c: 23 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 97 c: 24 ... old: 38.5 TRUE
## [1] " --> 97.79"
## [1] "r: 97 c: 25 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 97 c: 26 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 97 c: 27 ... old: inches FALSE
## [1] "r: 97 c: 28 ... old: right FALSE
## [1] "r: 97 c: 29 ... old: left FALSE
## [1] "r: 97 c: 30 ... old: blue FALSE
## [1] "r: 97 c: 31 ... old: right FALSE
## [1] "r: 97 c: 33 ... old: M FALSE
## [1] "r: 97 c: 36 ... old: White Non-Hispanic FALSE
## [1] "r: 97 c: 37 ... old: Possible ancestry may include: German, Swiss, Norwegian and English FALSE
## [1] "r: 97 c: 38 ... old: 7.675 TRUE
## [1] " --> 19.4945"
## [1] "r: 97 c: 39 ... old: 8.275 TRUE
## [1] " --> 21.0185"
## [1] "r: 97 c: 40 ... old: 11.325 TRUE
## [1] " --> 28.7655"
## [1] "r: 97 c: 41 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 97 c: 42 ... old: 86.25
## [1] " --> 219.075"
## [1] "r: 97 c: 43 ... old: 9.875
## [1] " --> 25.0825"
## [1] "r: 97 c: 44 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 97 c: 45 ... old: 37
## [1] " --> 93.98"
## [1] "r: 97 c: 46 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 98 c: 1 ... old: 253a0d24ddff7cbe1b9f621870d9d198 FALSE
## [1] "r: 98 c: 2 ... old: 4303a33a7da3801b36dcde6ff75b6b16 FALSE
## [1] "r: 98 c: 3 ... old: NA FALSE
## [1] "r: 98 c: 4 ... old: 63 TRUE
## [1] " --> 160.02"
## [1] "r: 98 c: 5 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 98 c: 6 ... old: 22.5 TRUE
## [1] " --> 57.15"
## [1] "r: 98 c: 7 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 98 c: 8 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 98 c: 9 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 98 c: 10 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 98 c: 11 ... old: NA TRUE
```

```
## [1] " --> NA"
## [1] "r: 98 c: 12 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 98 c: 13 ... old: NA
                                 TRUF.
## [1] " --> NA"
## [1] "r: 98 c: 14 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 98 c: 15 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 98 c: 16 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 98 c: 17 ... old: 62
                                 TRUE
## [1] " --> 157.48"
## [1] "r: 98 c: 18 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 98 c: 19 ... old: NA
## [1] " --> NA"
## [1] "r: 98 c: 20 ... old: NA
## [1] " --> NA"
## [1] "r: 98 c: 21 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 98 c: 22 ... old: NA
## [1] " --> NA"
## [1] "r: 98 c: 23 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 98 c: 24 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 98 c: 25 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 98 c: 26 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 98 c: 27 ... old: inches FALSE
## [1] "r: 98 c: 28 ... old: right FALSE
## [1] "r: 98 c: 29 ... old: right FALSE
## [1] "r: 98 c: 30 ... old: blue FALSE
## [1] "r: 98 c: 31 ... old: right FALSE
## [1] "r: 98 c: 33 ... old: F FALSE
## [1] "r: 98 c: 36 ... old: White Non-Hispanic FALSE
## [1] "r: 98 c: 37 ... old: Possible ancestry may include: Dutch and Eglish FALSE
## [1] "r: 98 c: 38 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 98 c: 39 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 98 c: 40 ... old: NaN
                                 TRUE
## [1] " --> NaN"
## [1] "r: 98 c: 41 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 98 c: 42 ... old: NaN
## [1] " --> NaN"
## [1] "r: 98 c: 43 ... old: NaN
## [1] " --> NaN"
## [1] "r: 98 c: 44 ... old: NaN
## [1] " --> NaN"
## [1] "r: 98 c: 45 ... old: NaN TRUE
```

```
## [1] " --> NaN"
## [1] "r: 98 c: 46 ... old: NaN TRUE
## [1] " --> NaN"
## [1] "r: 99 c: 1 ... old: 253a0d24ddff7cbe1b9f621870d9d198 FALSE
## [1] "r: 99 c: 2 ... old: eeead4ca1f5a37e4021d64295eb831e6 FALSE
## [1] "r: 99 c: 3 ... old: NA FALSE
## [1] "r: 99 c: 4 ... old: 42.5 TRUE
## [1] " --> 107.95"
## [1] "r: 99 c: 5 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 99 c: 6 ... old: 20.5 TRUE
## [1] " --> 52.07"
## [1] "r: 99 c: 7 ... old: 4.75 TRUE
## [1] " --> 12.065"
## [1] "r: 99 c: 8 ... old: 4.5 TRUE
## [1] " --> 11.43"
## [1] "r: 99 c: 9 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 99 c: 10 ... old: 5.75 TRUE
## [1] " --> 14.605"
## [1] "r: 99 c: 11 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 99 c: 12 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 99 c: 13 ... old: NA
                                TRUE
## [1] " --> NA"
## [1] "r: 99 c: 14 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 99 c: 15 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 99 c: 16 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 99 c: 17 ... old: 41
                                 TRUE
## [1] " --> 104.14"
## [1] "r: 99 c: 18 ... old: NA
## [1] " --> NA"
## [1] "r: 99 c: 19 ... old: NA
## [1] " --> NA"
## [1] "r: 99 c: 20 ... old: NA
## [1] " --> NA"
## [1] "r: 99 c: 21 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 99 c: 22 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 99 c: 23 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 99 c: 24 ... old: NA
                                TRUE
## [1] " --> NA"
## [1] "r: 99 c: 25 ... old: NA
                                TRUE
## [1] " --> NA"
## [1] "r: 99 c: 26 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 99 c: 27 ... old: inches FALSE
## [1] "r: 99 c: 28 ... old: right FALSE
```

```
## [1] "r: 99 c: 29 ... old: right FALSE
## [1] "r: 99 c: 30 ... old: blue FALSE
## [1] "r: 99 c: 31 ... old: right FALSE
## [1] "r: 99 c: 33 ... old: M FALSE
## [1] "r: 99 c: 36 ... old: White Non-Hispanic FALSE
## [1] "r: 99 c: 37 ... old: Possible ancestry may include: German, Swiss, Dutch, Norwegian and Eglish
## [1] "r: 99 c: 38 ... old: 4.625 TRUE
## [1] " --> 11.7475"
## [1] "r: 99 c: 39 ... old: 5.625 TRUE
## [1] " --> 14.2875"
## [1] "r: 99 c: 40 ... old: NaN
                                 TRUE
## [1] " --> NaN"
## [1] "r: 99 c: 41 ... old: NaN
                                 TRUE
## [1] " --> NaN"
## [1] "r: 99 c: 42 ... old: NaN
                                 TRUE
## [1] " --> NaN"
## [1] "r: 99 c: 43 ... old: NaN
                                 TRUE
## [1] " --> NaN"
## [1] "r: 99 c: 44 ... old: NaN
                                 TRUE
## [1] " --> NaN"
## [1] "r: 99 c: 45 ... old: NaN
## [1] " --> NaN"
## [1] "r: 99 c: 46 ... old: NaN TRUE
## [1] " --> NaN"
## [1] "r: 100 c: 1 ... old: 253a0d24ddff7cbe1b9f621870d9d198 FALSE
## [1] "r: 100 c: 2 ... old: dabc021b0e03bcadbd60c3795dd8dc3b FALSE
## [1] "r: 100 c: 3 ... old: NA FALSE
## [1] "r: 100 c: 4 ... old: 33.5 TRUE
## [1] " --> 85.09"
## [1] "r: 100 c: 5 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 100 c: 6 ... old: 19.5 TRUE
## [1] " --> 49.53"
## [1] "r: 100 c: 7 ... old: 3.75 TRUE
## [1] " --> 9.525"
## [1] "r: 100 c: 8 ... old: 3.5
## [1] " --> 8.89"
## [1] "r: 100 c: 9 ... old: 4.5 TRUE
## [1] " --> 11.43"
## [1] "r: 100 c: 10 ... old: 4.5 TRUE
## [1] " --> 11.43"
## [1] "r: 100 c: 11 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 100 c: 12 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 100 c: 13 ... old: NA
## [1] " --> NA"
## [1] "r: 100 c: 14 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 100 c: 15 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 100 c: 16 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 100 c: 17 ... old: 31.5 TRUE
```

```
## [1] " --> 80.01"
## [1] "r: 100 c: 18 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 100 c: 19 ... old: NA
                                  TRUE
## [1] " --> NA"
## [1] "r: 100 c: 20 ... old: NA
                                  TRUE
## [1] " --> NA"
## [1] "r: 100 c: 21 ... old: NA
                                  TRUE
## [1] " --> NA"
## [1] "r: 100 c: 22 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 100 c: 23 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 100 c: 24 ... old: NA
## [1] " --> NA"
## [1] "r: 100 c: 25 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 100 c: 26 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 100 c: 27 ... old: inches FALSE
## [1] "r: 100 c: 28 ... old: both FALSE
## [1] "r: 100 c: 29 ... old: NA FALSE
## [1] "r: 100 c: 30 ... old: blue FALSE
## [1] "r: 100 c: 31 ... old: both FALSE
## [1] "r: 100 c: 33 ... old: F FALSE
## [1] "r: 100 c: 36 ... old: White Non-Hispanic FALSE
## [1] "r: 100 c: 37 ... old: Possible ancestry may include: German, Swiss, Dutch, Norwegian and Eglish
## [1] "r: 100 c: 38 ... old: 3.625 TRUE
## [1] " --> 9.2075"
## [1] "r: 100 c: 39 ... old: 4.5
                                  TRUE
## [1] " --> 11.43"
## [1] "r: 100 c: 40 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 100 c: 41 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 100 c: 42 ... old: NaN
                                   TRUF.
## [1] " --> NaN"
## [1] "r: 100 c: 43 ... old: NaN
                                   TRUF.
## [1] " --> NaN"
## [1] "r: 100 c: 44 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 100 c: 45 ... old: NaN
                                   TRUF.
## [1] " --> NaN"
## [1] "r: 100 c: 46 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 101 c: 1 ... old: 253a0d24ddff7cbe1b9f621870d9d198 FALSE
## [1] "r: 101 c: 2 ... old: cf4e88b3cd3bcfeb43df3f865747af57 FALSE
## [1] "r: 101 c: 3 ... old: NA FALSE
## [1] "r: 101 c: 4 ... old: 63
                                 TRUE
## [1] " --> 160.02"
## [1] "r: 101 c: 5 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 101 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
```

```
## [1] "r: 101 c: 7 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 101 c: 8 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 101 c: 9 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 101 c: 10 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 101 c: 11 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 101 c: 12 ... old: NA
                                  TRUE
## [1] " --> NA"
## [1] "r: 101 c: 13 ... old: NA
                                  TRUE
## [1] " --> NA"
## [1] "r: 101 c: 14 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 101 c: 15 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 101 c: 16 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 101 c: 17 ... old: 63
## [1] " --> 160.02"
## [1] "r: 101 c: 18 ... old: NA
## [1] " --> NA"
## [1] "r: 101 c: 19 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 101 c: 20 ... old: NA
                                  TRUE
## [1] " --> NA"
## [1] "r: 101 c: 21 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 101 c: 22 ... old: NA
## [1] " --> NA"
## [1] "r: 101 c: 23 ... old: NA
## [1] " --> NA"
## [1] "r: 101 c: 24 ... old: NA
## [1] " --> NA"
## [1] "r: 101 c: 25 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 101 c: 26 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 101 c: 27 ... old: inches FALSE
## [1] "r: 101 c: 28 ... old: right FALSE
## [1] "r: 101 c: 29 ... old: left FALSE
## [1] "r: 101 c: 30 ... old: hazel FALSE
## [1] "r: 101 c: 31 ... old: right FALSE
## [1] "r: 101 c: 33 ... old: F FALSE
## [1] "r: 101 c: 36 ... old: White Non-Hispanic FALSE
## [1] "r: 101 c: 37 ... old: Possible ancestry may include: Norwegian and Eglish FALSE
## [1] "r: 101 c: 38 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 101 c: 39 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 101 c: 40 ... old: NaN TRUE
## [1] " --> NaN"
```

```
## [1] "r: 101 c: 41 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 101 c: 42 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 101 c: 43 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 101 c: 44 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 101 c: 45 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 101 c: 46 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 102 c: 1 ... old: 253a0d24ddff7cbe1b9f621870d9d198 FALSE
## [1] "r: 102 c: 2 ... old: 0b36178aaf339b27b19d5f38e97d97ae FALSE
## [1] "r: 102 c: 3 ... old: NA FALSE
## [1] "r: 102 c: 4 ... old: 69
                                TRUE
## [1] " --> 175.26"
## [1] "r: 102 c: 5 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 102 c: 6 ... old: 24.2 TRUE
## [1] " --> 61.468"
## [1] "r: 102 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 102 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 102 c: 9 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 102 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 102 c: 11 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 102 c: 12 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 102 c: 13 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 102 c: 14 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 102 c: 15 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 102 c: 16 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 102 c: 17 ... old: 66
                                 TRUE
## [1] " --> 167.64"
## [1] "r: 102 c: 18 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 102 c: 19 ... old: NA
## [1] " --> NA"
## [1] "r: 102 c: 20 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 102 c: 21 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 102 c: 22 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 102 c: 23 ... old: NA TRUE
```

```
## [1] " --> NA"
## [1] "r: 102 c: 24 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 102 c: 25 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 102 c: 26 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 102 c: 27 ... old: inches FALSE
## [1] "r: 102 c: 28 ... old: left FALSE
## [1] "r: 102 c: 29 ... old: right FALSE
## [1] "r: 102 c: 30 ... old: blue FALSE
## [1] "r: 102 c: 31 ... old: left FALSE
## [1] "r: 102 c: 33 ... old: M FALSE
## [1] "r: 102 c: 36 ... old: White Non-Hispanic FALSE
## [1] "r: 102 c: 37 ... old: Possible ancestry may include: German, Swiss and Eglish FALSE
## [1] "r: 102 c: 38 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 102 c: 39 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 102 c: 40 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 102 c: 41 ... old: NaN
                                   TRUF.
## [1] " --> NaN"
## [1] "r: 102 c: 42 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 102 c: 43 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 102 c: 44 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 102 c: 45 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 102 c: 46 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 103 c: 1 ... old: 253a0d24ddff7cbe1b9f621870d9d198 FALSE
## [1] "r: 103 c: 2 ... old: be3732e06f96f48a9f6b4aefbc026d42 FALSE
## [1] "r: 103 c: 3 ... old: NA FALSE
## [1] "r: 103 c: 4 ... old: 65
## [1] " --> 165.1"
## [1] "r: 103 c: 5 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 103 c: 6 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 103 c: 7 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 103 c: 8 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 103 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 103 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 103 c: 11 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 103 c: 12 ... old: NA TRUE
## [1] " --> NA"
```

```
## [1] "r: 103 c: 13 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 103 c: 14 ... old: NA
## [1] " --> NA"
## [1] "r: 103 c: 15 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 103 c: 16 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 103 c: 17 ... old: 65.5 TRUE
## [1] " --> 166.37"
## [1] "r: 103 c: 18 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 103 c: 19 ... old: NA
                                  TRUE
## [1] " --> NA"
## [1] "r: 103 c: 20 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 103 c: 21 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 103 c: 22 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 103 c: 23 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 103 c: 24 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 103 c: 25 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 103 c: 26 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 103 c: 27 ... old: inches FALSE
## [1] "r: 103 c: 28 ... old: right FALSE
## [1] "r: 103 c: 29 ... old: left FALSE
## [1] "r: 103 c: 30 ... old: blue FALSE
## [1] "r: 103 c: 31 ... old: right FALSE
## [1] "r: 103 c: 33 ... old: F FALSE
## [1] "r: 103 c: 36 ... old: White Non-Hispanic FALSE
## [1] "r: 103 c: 37 ... old: Possible ancestry may include: German, Swiss, Norwegian and English FALS.
## [1] "r: 103 c: 38 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 103 c: 39 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 103 c: 40 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 103 c: 41 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 103 c: 42 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 103 c: 43 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 103 c: 44 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 103 c: 45 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 103 c: 46 ... old: NaN TRUE
## [1] " --> NaN"
```

```
## [1] "r: 104 c: 1 ... old: 253a0d24ddff7cbe1b9f621870d9d198 FALSE
## [1] "r: 104 c: 2 ... old: 10bcf9fc27bfb07ff4309230b6e1fd16 FALSE
## [1] "r: 104 c: 3 ... old: NA FALSE
## [1] "r: 104 c: 4 ... old: 65
## [1] " --> 165.1"
## [1] "r: 104 c: 5 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 104 c: 6 ... old: 22.5 TRUE
## [1] " --> 57.15"
## [1] "r: 104 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 104 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 104 c: 9 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 104 c: 10 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 104 c: 11 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 104 c: 12 ... old: NA
## [1] " --> NA"
## [1] "r: 104 c: 13 ... old: NA
## [1] " --> NA"
## [1] "r: 104 c: 14 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 104 c: 15 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 104 c: 16 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 104 c: 17 ... old: 63.75 TRUE
## [1] " --> 161.925"
## [1] "r: 104 c: 18 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 104 c: 19 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 104 c: 20 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 104 c: 21 ... old: NA
## [1] " --> NA"
## [1] "r: 104 c: 22 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 104 c: 23 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 104 c: 24 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 104 c: 25 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 104 c: 26 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 104 c: 27 ... old: inches FALSE
## [1] "r: 104 c: 28 ... old: left FALSE
## [1] "r: 104 c: 29 ... old: left FALSE
## [1] "r: 104 c: 30 ... old: brown FALSE
## [1] "r: 104 c: 31 ... old: right FALSE
```

```
## [1] "r: 104 c: 33 ... old: M FALSE
## [1] "r: 104 c: 36 ... old: White Non-Hispanic FALSE
## [1] "r: 104 c: 37 ... old: Possible ancestry may include: Greek and English FALSE
## [1] "r: 104 c: 38 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 104 c: 39 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 104 c: 40 ... old: NaN
                                  TRUF.
## [1] " --> NaN"
## [1] "r: 104 c: 41 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 104 c: 42 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 104 c: 43 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 104 c: 44 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 104 c: 45 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 104 c: 46 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 105 c: 1 ... old: 253a0d24ddff7cbe1b9f621870d9d198 FALSE
## [1] "r: 105 c: 2 ... old: bfb025246aab6d98222153d7cf51fdeb FALSE
## [1] "r: 105 c: 3 ... old: NA FALSE
## [1] "r: 105 c: 4 ... old: 62 TRUE
## [1] " --> 157.48"
## [1] "r: 105 c: 5 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 105 c: 6 ... old: 21.5 TRUE
## [1] " --> 54.61"
## [1] "r: 105 c: 7 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 105 c: 8 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 105 c: 9 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 105 c: 10 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 105 c: 11 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 105 c: 12 ... old: NA
## [1] " --> NA"
## [1] "r: 105 c: 13 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 105 c: 14 ... old: NA
## [1] " --> NA"
## [1] "r: 105 c: 15 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 105 c: 16 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 105 c: 17 ... old: 64 TRUE
## [1] " --> 162.56"
## [1] "r: 105 c: 18 ... old: NA TRUE
## [1] " --> NA"
```

```
## [1] "r: 105 c: 19 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 105 c: 20 ... old: NA
## [1] " --> NA"
## [1] "r: 105 c: 21 ... old: NA
## [1] " --> NA"
## [1] "r: 105 c: 22 ... old: NA
## [1] " --> NA"
## [1] "r: 105 c: 23 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 105 c: 24 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 105 c: 25 ... old: NA
                                 TRUE
## [1] " --> NA"
## [1] "r: 105 c: 26 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 105 c: 27 ... old: inches FALSE
## [1] "r: 105 c: 28 ... old: right FALSE
## [1] "r: 105 c: 29 ... old: right FALSE
## [1] "r: 105 c: 30 ... old: blue FALSE
## [1] "r: 105 c: 31 ... old: right FALSE
## [1] "r: 105 c: 33 ... old: F FALSE
## [1] "r: 105 c: 36 ... old: White Non-Hispanic FALSE
## [1] "r: 105 c: 37 ... old: Possible ancestry may include: Norwegian FALSE
## [1] "r: 105 c: 38 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 105 c: 39 ... old: 7.375 TRUE
## [1] " --> 18.7325"
## [1] "r: 105 c: 40 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 105 c: 41 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 105 c: 42 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 105 c: 43 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 105 c: 44 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 105 c: 45 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 105 c: 46 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 106 c: 1 ... old: 253a0d24ddff7cbe1b9f621870d9d198 FALSE
## [1] "r: 106 c: 2 ... old: 1018deacd9ac4ed7b69c8d393c553459 FALSE
## [1] "r: 106 c: 3 ... old: NA FALSE
## [1] "r: 106 c: 4 ... old: 72
                                TRUE
## [1] " --> 182.88"
## [1] "r: 106 c: 5 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 106 c: 6 ... old: 23.25 TRUE
## [1] " --> 59.055"
## [1] "r: 106 c: 7 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 106 c: 8 ... old: 7.5 TRUE
```

```
## [1] " --> 19.05"
## [1] "r: 106 c: 9 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 106 c: 10 ... old: 8.5
                                  TRUE
## [1] " --> 21.59"
## [1] "r: 106 c: 11 ... old: NA
## [1] " --> NA"
## [1] "r: 106 c: 12 ... old: NA
## [1] " --> NA"
## [1] "r: 106 c: 13 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 106 c: 14 ... old: NA
## [1] " --> NA"
## [1] "r: 106 c: 15 ... old: NA
## [1] " --> NA"
## [1] "r: 106 c: 16 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 106 c: 17 ... old: 73 TRUE
## [1] " --> 185.42"
## [1] "r: 106 c: 18 ... old: NA
## [1] " --> NA"
## [1] "r: 106 c: 19 ... old: NA
## [1] " --> NA"
## [1] "r: 106 c: 20 ... old: NA
## [1] " --> NA"
## [1] "r: 106 c: 21 ... old: NA
## [1] " --> NA"
## [1] "r: 106 c: 22 ... old: NA
## [1] " --> NA"
## [1] "r: 106 c: 23 ... old: NA
## [1] " --> NA"
## [1] "r: 106 c: 24 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 106 c: 25 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 106 c: 26 ... old: NA TRUE
## [1] " --> NA"
## [1] "r: 106 c: 27 ... old: inches FALSE
## [1] "r: 106 c: 28 ... old: right FALSE
## [1] "r: 106 c: 29 ... old: right FALSE
## [1] "r: 106 c: 30 ... old: blue FALSE
## [1] "r: 106 c: 31 ... old: right FALSE
## [1] "r: 106 c: 33 ... old: M FALSE
## [1] "r: 106 c: 36 ... old: White Non-Hispanic FALSE
## [1] "r: 106 c: 37 ... old: Possible ancestry may include: English FALSE
## [1] "r: 106 c: 38 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 106 c: 39 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 106 c: 40 ... old: NaN
                                  TRUE
## [1] " --> NaN"
## [1] "r: 106 c: 41 ... old: NaN
                                   TRUE
## [1] " --> NaN"
## [1] "r: 106 c: 42 ... old: NaN TRUE
```

```
## [1] " --> NaN"
## [1] "r: 106 c: 43 ... old: NaN TRUE
## [1] " --> NaN"
## [1] "r: 106 c: 44 ... old: NaN
                                  TRUF.
## [1] " --> NaN"
## [1] "r: 106 c: 45 ... old: NaN
                                  TRUF.
## [1] " --> NaN"
## [1] "r: 106 c: 46 ... old: NaN TRUE
## [1] " --> NaN"
## [1] "r: 247 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 247 c: 2 ... old: 1c2408654ef5a2fe1fc96208F7E65151 FALSE
## [1] "r: 247 c: 3 ... old: left FALSE
## [1] "r: 247 c: 4 ... old: 62.5 TRUE
## [1] " --> 158.75"
## [1] "r: 247 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 247 c: 6 ... old: 21.75 TRUE
## [1] " --> 55.245"
## [1] "r: 247 c: 7 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 247 c: 8 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 247 c: 9 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 247 c: 10 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 247 c: 11 ... old: 14.75 TRUE
## [1] " --> 37.465"
## [1] "r: 247 c: 12 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 247 c: 13 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 247 c: 14 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 247 c: 15 ... old: 79.25 TRUE
## [1] " --> 201.295"
## [1] "r: 247 c: 16 ... old: 79.5 TRUE
## [1] " --> 201.93"
## [1] "r: 247 c: 17 ... old: 59.75 TRUE
## [1] " --> 151.765"
## [1] "r: 247 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 247 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 247 c: 20 ... old: 15.5 TRUE
## [1] " --> 39.37"
## [1] "r: 247 c: 21 ... old: 15.5 TRUE
## [1] " --> 39.37"
## [1] "r: 247 c: 22 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 247 c: 23 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 247 c: 24 ... old: 37 TRUE
## [1] " --> 93.98"
```

```
## [1] "r: 247 c: 25 ... old: 46.75 TRUE
## [1] " --> 118.745"
## [1] "r: 247 c: 26 ... old: 47 TRUE
## [1] " --> 119.38"
## [1] "r: 247 c: 27 ... old: in FALSE
## [1] "r: 247 c: 28 ... old: Right FALSE
## [1] "r: 247 c: 29 ... old: Right FALSE
## [1] "r: 247 c: 30 ... old: Green FALSE
## [1] "r: 247 c: 31 ... old: Right FALSE
## [1] "r: 247 c: 33 ... old: Female FALSE
## [1] "r: 247 c: 36 ... old: White FALSE
## [1] "r: 247 c: 37 ... old: none FALSE
## [1] "r: 247 c: 38 ... old: 6.625 TRUE
## [1] " --> 16.8275"
## [1] "r: 247 c: 39 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 247 c: 40 ... old: 14.875 TRUE
## [1] " --> 37.7825"
## [1] "r: 247 c: 41 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 247 c: 42 ... old: 79.375 TRUE
## [1] " --> 201.6125"
## [1] "r: 247 c: 43 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 247 c: 44 ... old: 15.5 TRUE
## [1] " --> 39.37"
## [1] "r: 247 c: 45 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 247 c: 46 ... old: 46.875 TRUE
## [1] " --> 119.0625"
## [1] "r: 248 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 248 c: 2 ... old: 1c2408654ef5a2fe1fc962081BCAE6A7 FALSE
## [1] "r: 248 c: 3 ... old: left FALSE
## [1] "r: 248 c: 4 ... old: 68 TRUE
## [1] " --> 172.72"
## [1] "r: 248 c: 5 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 248 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 248 c: 7 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 248 c: 8 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 248 c: 9 ... old: 3.5 TRUE
## [1] " --> 8.89"
## [1] "r: 248 c: 10 ... old: 3.75 TRUE
## [1] " --> 9.525"
## [1] "r: 248 c: 11 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 248 c: 12 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 248 c: 13 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 248 c: 14 ... old: 9 TRUE
```

```
## [1] " --> 22.86"
## [1] "r: 248 c: 15 ... old: 56 TRUE
## [1] " --> 142.24"
## [1] "r: 248 c: 16 ... old: 56 TRUE
## [1] " --> 142.24"
## [1] "r: 248 c: 17 ... old: 66 TRUE
## [1] " --> 167.64"
## [1] "r: 248 c: 18 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 248 c: 19 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 248 c: 20 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 248 c: 21 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 248 c: 22 ... old: 35
## [1] " --> 88.9"
## [1] "r: 248 c: 23 ... old: 35
## [1] " --> 88.9"
## [1] "r: 248 c: 24 ... old: 41
## [1] " --> 104.14"
## [1] "r: 248 c: 25 ... old: 54
## [1] " --> 137.16"
## [1] "r: 248 c: 26 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 248 c: 27 ... old: in FALSE
## [1] "r: 248 c: 28 ... old: Right FALSE
## [1] "r: 248 c: 29 ... old: Right FALSE
## [1] "r: 248 c: 30 ... old: Hazel FALSE
## [1] "r: 248 c: 31 ... old: Right FALSE
## [1] "r: 248 c: 33 ... old: Female FALSE
## [1] "r: 248 c: 36 ... old: White FALSE
## [1] "r: 248 c: 37 ... old: English, Scottish, Irish, Italian, Slovakian decent FALSE
## [1] "r: 248 c: 38 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 248 c: 39 ... old: 3.625 TRUE
## [1] " --> 9.2075"
## [1] "r: 248 c: 40 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 248 c: 41 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 248 c: 42 ... old: 56 TRUE
## [1] " --> 142.24"
## [1] "r: 248 c: 43 ... old: 9.125 TRUE
## [1] " --> 23.1775"
## [1] "r: 248 c: 44 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 248 c: 45 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 248 c: 46 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 249 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 249 c: 2 ... old: 1c2408654ef5a2fe1fc96208D879E889 FALSE
## [1] "r: 249 c: 3 ... old: left FALSE
```

```
## [1] "r: 249 c: 4 ... old: 71 TRUE
## [1] " --> 180.34"
## [1] "r: 249 c: 5 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 249 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 249 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 249 c: 8 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 249 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 249 c: 10 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 249 c: 11 ... old: 17.5
## [1] " --> 44.45"
## [1] "r: 249 c: 12 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 249 c: 13 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 249 c: 14 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 249 c: 15 ... old: 59 TRUE
## [1] " --> 149.86"
## [1] "r: 249 c: 16 ... old: 59 TRUE
## [1] " --> 149.86"
## [1] "r: 249 c: 17 ... old: 74 TRUE
## [1] " --> 187.96"
## [1] "r: 249 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 249 c: 19 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 249 c: 20 ... old: 17.5
## [1] " --> 44.45"
## [1] "r: 249 c: 21 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 249 c: 22 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 249 c: 23 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 249 c: 24 ... old: 42 TRUE
## [1] " --> 106.68"
## [1] "r: 249 c: 25 ... old: 55
## [1] " --> 139.7"
## [1] "r: 249 c: 26 ... old: 55
## [1] " --> 139.7"
## [1] "r: 249 c: 27 ... old: in FALSE
## [1] "r: 249 c: 28 ... old: Left FALSE
## [1] "r: 249 c: 29 ... old: Left FALSE
## [1] "r: 249 c: 30 ... old: Brown FALSE
## [1] "r: 249 c: 31 ... old: Left FALSE
## [1] "r: 249 c: 33 ... old: Female FALSE
## [1] "r: 249 c: 36 ... old: White FALSE
## [1] "r: 249 c: 37 ... old: English and Russian FALSE
```

```
## [1] "r: 249 c: 38 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 249 c: 39 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 249 c: 40 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 249 c: 41 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 249 c: 42 ... old: 59 TRUE
## [1] " --> 149.86"
## [1] "r: 249 c: 43 ... old: 9.625 TRUE
## [1] " --> 24.4475"
## [1] "r: 249 c: 44 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 249 c: 45 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 249 c: 46 ... old: 55 TRUE
## [1] " --> 139.7"
## [1] "r: 252 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 252 c: 2 ... old: 1c2408654ef5a2fe1fc9620886294D42 FALSE
## [1] "r: 252 c: 3 ... old: left FALSE
## [1] "r: 252 c: 4 ... old: 70 TRUE
## [1] " --> 177.8"
## [1] "r: 252 c: 5 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 252 c: 6 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 252 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 252 c: 8 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 252 c: 9 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 252 c: 10 ... old: 10 TRUE
## [1] " --> 25.4"
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## [1] "r: 252 c: 12 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 252 c: 13 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 252 c: 14 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 252 c: 15 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 252 c: 16 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 252 c: 17 ... old: 70 TRUE
## [1] " --> 177.8"
## [1] "r: 252 c: 18 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 252 c: 19 ... old: 10
## [1] " --> 25.4"
## [1] "r: 252 c: 20 ... old: 20 TRUE
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## [1] "r: 252 c: 21 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 252 c: 22 ... old: 39
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## [1] " --> 99.06"
## [1] "r: 252 c: 23 ... old: 39
                                 TRUE
## [1] " --> 99.06"
## [1] "r: 252 c: 24 ... old: 42
## [1] " --> 106.68"
## [1] "r: 252 c: 25 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 252 c: 26 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 252 c: 27 ... old: in FALSE
## [1] "r: 252 c: 28 ... old: Right FALSE
## [1] "r: 252 c: 29 ... old: Right FALSE
## [1] "r: 252 c: 30 ... old: Brown FALSE
## [1] "r: 252 c: 31 ... old: Right FALSE
## [1] "r: 252 c: 33 ... old: Male FALSE
## [1] "r: 252 c: 36 ... old: Hispanic FALSE
## [1] "r: 252 c: 37 ... old: Mexican FALSE
## [1] "r: 252 c: 38 ... old: 8 TRUE
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## [1] "r: 252 c: 39 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 252 c: 40 ... old: 19
## [1] " --> 48.26"
## [1] "r: 252 c: 41 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 252 c: 42 ... old: 90
                                 TRUE
## [1] " --> 228.6"
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## [1] " --> 25.4"
## [1] "r: 252 c: 44 ... old: 20
                                 TRUE
## [1] " --> 50.8"
## [1] "r: 252 c: 45 ... old: 39
## [1] " --> 99.06"
## [1] "r: 252 c: 46 ... old: 50 TRUE
## [1] " --> 127"
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## [1] "r: 253 c: 2 ... old: 1c2408654ef5a2fe1fc9620818A6683B FALSE
## [1] "r: 253 c: 3 ... old: left FALSE
## [1] "r: 253 c: 4 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 253 c: 5 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 253 c: 6 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 253 c: 7 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 253 c: 8 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 253 c: 9 ... old: 5.5 TRUE
## [1] " --> 13.97"
```

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## [1] " --> 13.97"
## [1] "r: 253 c: 11 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 253 c: 12 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 253 c: 13 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 253 c: 14 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 253 c: 15 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 253 c: 16 ... old: 57
                                 TRUE
## [1] " --> 144.78"
## [1] "r: 253 c: 17 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 253 c: 18 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 253 c: 19 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 253 c: 20 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 253 c: 21 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 253 c: 22 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 253 c: 23 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 253 c: 24 ... old: 27 TRUE
## [1] " --> 68.58"
## [1] "r: 253 c: 25 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 253 c: 26 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 253 c: 27 ... old: in FALSE
## [1] "r: 253 c: 28 ... old: Right FALSE
## [1] "r: 253 c: 29 ... old: Right FALSE
## [1] "r: 253 c: 30 ... old: Blue FALSE
## [1] "r: 253 c: 31 ... old: Right FALSE
## [1] "r: 253 c: 33 ... old: Female FALSE
## [1] "r: 253 c: 36 ... old: White FALSE
## [1] "r: 253 c: 37 ... old: NA FALSE
## [1] "r: 253 c: 38 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 253 c: 39 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 253 c: 40 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 253 c: 41 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 253 c: 42 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 253 c: 43 ... old: 7 TRUE
## [1] " --> 17.78"
```

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## [1] " --> 33.02"
## [1] "r: 253 c: 45 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 253 c: 46 ... old: 35.25 TRUE
## [1] " --> 89.535"
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## [1] "r: 254 c: 2 ... old: 1c2408654ef5a2fe1fc9620886294D43 FALSE
## [1] "r: 254 c: 3 ... old: left FALSE
## [1] "r: 254 c: 4 ... old: 63 TRUE
## [1] " --> 160.02"
## [1] "r: 254 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 254 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 254 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 254 c: 8 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 254 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 254 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
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## [1] " --> 27.94"
## [1] "r: 254 c: 12 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 254 c: 13 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 254 c: 14 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 254 c: 15 ... old: 72 TRUE
## [1] " --> 182.88"
## [1] "r: 254 c: 16 ... old: 72 TRUE
## [1] " --> 182.88"
## [1] "r: 254 c: 17 ... old: 60 TRUE
## [1] " --> 152.4"
## [1] "r: 254 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 254 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 254 c: 20 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 254 c: 21 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 254 c: 22 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 254 c: 23 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 254 c: 24 ... old: 39
## [1] " --> 99.06"
## [1] "r: 254 c: 25 ... old: 50
## [1] " --> 127"
## [1] "r: 254 c: 26 ... old: 50 TRUE
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```
## [1] " --> 127"
## [1] "r: 254 c: 27 ... old: in FALSE "
## [1] "r: 254 c: 28 ... old: Right FALSE
## [1] "r: 254 c: 29 ... old: Left FALSE
## [1] "r: 254 c: 30 ... old: Hazel FALSE
## [1] "r: 254 c: 31 ... old: Right FALSE
## [1] "r: 254 c: 33 ... old: Male FALSE
## [1] "r: 254 c: 36 ... old: White FALSE
## [1] "r: 254 c: 37 ... old: NA FALSE "
## [1] "r: 254 c: 38 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 254 c: 39 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 254 c: 40 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 254 c: 41 ... old: 10.25 TRUE
## [1] " --> 26.035"
## [1] "r: 254 c: 42 ... old: 72 TRUE
## [1] " --> 182.88"
## [1] "r: 254 c: 43 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 254 c: 44 ... old: 18
## [1] " --> 45.72"
## [1] "r: 254 c: 45 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 254 c: 46 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 255 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 255 c: 2 ... old: 1c2408654ef5a2fe1fc9620818A6683B FALSE
## [1] "r: 255 c: 3 ... old: left FALSE
## [1] "r: 255 c: 4 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 255 c: 5 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 255 c: 6 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 255 c: 7 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 255 c: 8 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 255 c: 9 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 255 c: 10 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 255 c: 11 ... old: 11.25
## [1] " --> 28.575"
## [1] "r: 255 c: 12 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 255 c: 13 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 255 c: 14 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 255 c: 15 ... old: 57 TRUE
## [1] " --> 144.78"
```

```
## [1] "r: 255 c: 16 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 255 c: 17 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 255 c: 18 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 255 c: 19 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 255 c: 20 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 255 c: 21 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 255 c: 22 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 255 c: 23 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 255 c: 24 ... old: 27 TRUE
## [1] " --> 68.58"
## [1] "r: 255 c: 25 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 255 c: 26 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 255 c: 27 ... old: in FALSE
## [1] "r: 255 c: 28 ... old: Right FALSE
## [1] "r: 255 c: 29 ... old: Right FALSE
## [1] "r: 255 c: 30 ... old: Blue FALSE
## [1] "r: 255 c: 31 ... old: Right FALSE
## [1] "r: 255 c: 33 ... old: Male FALSE
## [1] "r: 255 c: 36 ... old: White FALSE
## [1] "r: 255 c: 37 ... old: NA FALSE
## [1] "r: 255 c: 38 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 255 c: 39 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 255 c: 40 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 255 c: 41 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 255 c: 42 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 255 c: 43 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 255 c: 44 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 255 c: 45 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 255 c: 46 ... old: 35.25 TRUE
## [1] " --> 89.535"
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## [1] "r: 256 c: 2 ... old: 1c2408654ef5a2fe1fc9620886294D44 FALSE
## [1] "r: 256 c: 3 ... old: left FALSE
## [1] "r: 256 c: 4 ... old: 62.5 TRUE
## [1] " --> 158.75"
## [1] "r: 256 c: 5 ... old: 9 TRUE
```

```
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## [1] "r: 256 c: 6 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 256 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 256 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 256 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 256 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 256 c: 11 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 256 c: 12 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 256 c: 13 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 256 c: 14 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 256 c: 15 ... old: 26
## [1] " --> 66.04"
## [1] "r: 256 c: 16 ... old: 27
## [1] " --> 68.58"
## [1] "r: 256 c: 17 ... old: 3.5 TRUE
## [1] " --> 8.89"
## [1] "r: 256 c: 18 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 256 c: 19 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 256 c: 20 ... old: 21
                                 TRUE
## [1] " --> 53.34"
## [1] "r: 256 c: 21 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 256 c: 22 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 256 c: 23 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 256 c: 24 ... old: 39 TRUE
## [1] " --> 99.06"
## [1] "r: 256 c: 25 ... old: 50.5 TRUE
## [1] " --> 128.27"
## [1] "r: 256 c: 26 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 256 c: 27 ... old: in FALSE
## [1] "r: 256 c: 28 ... old: Right FALSE
## [1] "r: 256 c: 29 ... old: Right FALSE
## [1] "r: 256 c: 30 ... old: Blue FALSE
## [1] "r: 256 c: 31 ... old: Right FALSE
## [1] "r: 256 c: 33 ... old: Female FALSE
## [1] "r: 256 c: 36 ... old: White FALSE
## [1] "r: 256 c: 37 ... old: NA FALSE "
## [1] "r: 256 c: 38 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 256 c: 39 ... old: 8 TRUE
```

```
## [1] " --> 20.32"
## [1] "r: 256 c: 40 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 256 c: 41 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 256 c: 42 ... old: 26.5 TRUE
## [1] " --> 67.31"
## [1] "r: 256 c: 43 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 256 c: 44 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 256 c: 45 ... old: 22.5 TRUE
## [1] " --> 57.15"
## [1] "r: 256 c: 46 ... old: 50.25 TRUE
## [1] " --> 127.635"
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## [1] "r: 257 c: 3 ... old: left FALSE
## [1] "r: 257 c: 4 ... old: 62.5 TRUE
## [1] " --> 158.75"
## [1] "r: 257 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
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## [1] " --> 55.245"
## [1] "r: 257 c: 7 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 257 c: 8 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 257 c: 9 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 257 c: 10 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 257 c: 11 ... old: 14.75 TRUE
## [1] " --> 37.465"
## [1] "r: 257 c: 12 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 257 c: 13 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 257 c: 14 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 257 c: 15 ... old: 79.25 TRUE
## [1] " --> 201.295"
## [1] "r: 257 c: 16 ... old: 79.5 TRUE
## [1] " --> 201.93"
## [1] "r: 257 c: 17 ... old: 59.75 TRUE
## [1] " --> 151.765"
## [1] "r: 257 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 257 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 257 c: 20 ... old: 15.5 TRUE
## [1] " --> 39.37"
## [1] "r: 257 c: 21 ... old: 15.5 TRUE
## [1] " --> 39.37"
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## [1] " --> 88.9"
## [1] "r: 257 c: 23 ... old: 35
## [1] " --> 88.9"
## [1] "r: 257 c: 24 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 257 c: 25 ... old: 46.75 TRUE
## [1] " --> 118.745"
## [1] "r: 257 c: 26 ... old: 47 TRUE
## [1] " --> 119.38"
## [1] "r: 257 c: 27 ... old: in FALSE
## [1] "r: 257 c: 28 ... old: Right FALSE
## [1] "r: 257 c: 29 ... old: Right FALSE
## [1] "r: 257 c: 30 ... old: Green FALSE
## [1] "r: 257 c: 31 ... old: Right FALSE
## [1] "r: 257 c: 33 ... old: Female FALSE
## [1] "r: 257 c: 36 ... old: White FALSE
## [1] "r: 257 c: 37 ... old: none FALSE
## [1] "r: 257 c: 38 ... old: 6.625 TRUE
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## [1] "r: 257 c: 39 ... old: 6.75 TRUE
## [1] " --> 17.145"
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## [1] " --> 37.7825"
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## [1] " --> 16.51"
## [1] "r: 257 c: 42 ... old: 79.375 TRUE
## [1] " --> 201.6125"
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## [1] " --> 24.13"
## [1] "r: 257 c: 44 ... old: 15.5 TRUE
## [1] " --> 39.37"
## [1] "r: 257 c: 45 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 257 c: 46 ... old: 46.875 TRUE
## [1] " --> 119.0625"
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## [1] "r: 258 c: 3 ... old: left FALSE
## [1] "r: 258 c: 4 ... old: 68 TRUE
## [1] " --> 172.72"
## [1] "r: 258 c: 5 ... old: 8.25 TRUE
## [1] " --> 20.955"
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## [1] " --> 55.88"
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## [1] " --> 18.415"
## [1] "r: 258 c: 8 ... old: 7.25 TRUE
## [1] " --> 18.415"
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## [1] " --> 8.89"
## [1] "r: 258 c: 10 ... old: 3.75 TRUE
## [1] " --> 9.525"
## [1] "r: 258 c: 11 ... old: 17 TRUE
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## [1] " --> 43.18"
## [1] "r: 258 c: 13 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 258 c: 14 ... old: 9 TRUE
## [1] " --> 22.86"
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## [1] " --> 142.24"
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## [1] " --> 167.64"
## [1] "r: 258 c: 18 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 258 c: 19 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 258 c: 20 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 258 c: 21 ... old: 18
## [1] " --> 45.72"
## [1] "r: 258 c: 22 ... old: 35
## [1] " --> 88.9"
## [1] "r: 258 c: 23 ... old: 35
## [1] " --> 88.9"
## [1] "r: 258 c: 24 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 258 c: 25 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 258 c: 26 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 258 c: 27 ... old: in FALSE
## [1] "r: 258 c: 28 ... old: Right FALSE
## [1] "r: 258 c: 29 ... old: Right FALSE
## [1] "r: 258 c: 30 ... old: Hazel FALSE
## [1] "r: 258 c: 31 ... old: Right FALSE
## [1] "r: 258 c: 33 ... old: Female FALSE
## [1] "r: 258 c: 36 ... old: White FALSE
## [1] "r: 258 c: 37 ... old: English, Scottish, Irish, Italian, Slovakian decent FALSE
## [1] "r: 258 c: 38 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 258 c: 39 ... old: 3.625 TRUE
## [1] " --> 9.2075"
## [1] "r: 258 c: 40 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 258 c: 41 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 258 c: 42 ... old: 56 TRUE
## [1] " --> 142.24"
## [1] "r: 258 c: 43 ... old: 9.125 TRUE
## [1] " --> 23.1775"
## [1] "r: 258 c: 44 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 258 c: 45 ... old: 35 TRUE
```

```
## [1] " --> 88.9"
## [1] "r: 258 c: 46 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 259 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 259 c: 2 ... old: 1c2408654ef5a2fe1fc96208D879E889 FALSE
## [1] "r: 259 c: 3 ... old: left FALSE
## [1] "r: 259 c: 4 ... old: 71 TRUE
## [1] " --> 180.34"
## [1] "r: 259 c: 5 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 259 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 259 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 259 c: 8 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 259 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 259 c: 10 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 259 c: 11 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 259 c: 12 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 259 c: 13 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 259 c: 14 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 259 c: 15 ... old: 59 TRUE
## [1] " --> 149.86"
## [1] "r: 259 c: 16 ... old: 59 TRUE
## [1] " --> 149.86"
## [1] "r: 259 c: 17 ... old: 74 TRUE
## [1] " --> 187.96"
## [1] "r: 259 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 259 c: 19 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 259 c: 20 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 259 c: 21 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 259 c: 22 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 259 c: 23 ... old: 41
## [1] " --> 104.14"
## [1] "r: 259 c: 24 ... old: 42 TRUE
## [1] " --> 106.68"
## [1] "r: 259 c: 25 ... old: 55 TRUE
## [1] " --> 139.7"
## [1] "r: 259 c: 26 ... old: 55 TRUE
## [1] " --> 139.7"
## [1] "r: 259 c: 27 ... old: in FALSE
## [1] "r: 259 c: 28 ... old: Left FALSE
```

```
## [1] "r: 259 c: 29 ... old: Left FALSE
## [1] "r: 259 c: 30 ... old: Brown FALSE
## [1] "r: 259 c: 31 ... old: Left FALSE
## [1] "r: 259 c: 33 ... old: Female FALSE
## [1] "r: 259 c: 36 ... old: White FALSE
## [1] "r: 259 c: 37 ... old: English and Russian FALSE
## [1] "r: 259 c: 38 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 259 c: 39 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 259 c: 40 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 259 c: 41 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 259 c: 42 ... old: 59 TRUE
## [1] " --> 149.86"
## [1] "r: 259 c: 43 ... old: 9.625 TRUE
## [1] " --> 24.4475"
## [1] "r: 259 c: 44 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 259 c: 45 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 259 c: 46 ... old: 55 TRUE
## [1] " --> 139.7"
## [1] "r: 262 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 262 c: 2 ... old: 1c2408654ef5a2fe1fc9620886294D42 FALSE
## [1] "r: 262 c: 3 ... old: left FALSE
## [1] "r: 262 c: 4 ... old: 70 TRUE
## [1] " --> 177.8"
## [1] "r: 262 c: 5 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 262 c: 6 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 262 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 262 c: 8 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 262 c: 9 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 262 c: 10 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 262 c: 11 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 262 c: 12 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 262 c: 13 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 262 c: 14 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 262 c: 15 ... old: 90
## [1] " --> 228.6"
## [1] "r: 262 c: 16 ... old: 90
## [1] " --> 228.6"
## [1] "r: 262 c: 17 ... old: 70 TRUE
```

```
## [1] " --> 177.8"
## [1] "r: 262 c: 18 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 262 c: 19 ... old: 10
                                 TRUE
## [1] " --> 25.4"
## [1] "r: 262 c: 20 ... old: 20
                                 TRUE
## [1] " --> 50.8"
## [1] "r: 262 c: 21 ... old: 20
## [1] " --> 50.8"
## [1] "r: 262 c: 22 ... old: 39
                                TRUE
## [1] " --> 99.06"
## [1] "r: 262 c: 23 ... old: 39
                                 TRUE
## [1] " --> 99.06"
## [1] "r: 262 c: 24 ... old: 42
## [1] " --> 106.68"
## [1] "r: 262 c: 25 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 262 c: 26 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 262 c: 27 ... old: in FALSE
## [1] "r: 262 c: 28 ... old: Right FALSE
## [1] "r: 262 c: 29 ... old: Right FALSE
## [1] "r: 262 c: 30 ... old: Brown FALSE
## [1] "r: 262 c: 31 ... old: Right FALSE
## [1] "r: 262 c: 33 ... old: Male FALSE
## [1] "r: 262 c: 36 ... old: Hispanic FALSE
## [1] "r: 262 c: 37 ... old: Mexican FALSE
## [1] "r: 262 c: 38 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 262 c: 39 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 262 c: 40 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 262 c: 41 ... old: 12
                                 TRUE
## [1] " --> 30.48"
## [1] "r: 262 c: 42 ... old: 90
## [1] " --> 228.6"
## [1] "r: 262 c: 43 ... old: 10
## [1] " --> 25.4"
## [1] "r: 262 c: 44 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 262 c: 45 ... old: 39
## [1] " --> 99.06"
## [1] "r: 262 c: 46 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 263 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 263 c: 2 ... old: 1c2408654ef5a2fe1fc9620818A6683B FALSE
## [1] "r: 263 c: 3 ... old: left FALSE
## [1] "r: 263 c: 4 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 263 c: 5 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 263 c: 6 ... old: 20 TRUE
## [1] " --> 50.8"
```

```
## [1] "r: 263 c: 7 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 263 c: 8 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 263 c: 9 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 263 c: 10 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 263 c: 11 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 263 c: 12 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 263 c: 13 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 263 c: 14 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 263 c: 15 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 263 c: 16 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 263 c: 17 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 263 c: 18 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 263 c: 19 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 263 c: 20 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 263 c: 21 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 263 c: 22 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 263 c: 23 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 263 c: 24 ... old: 27 TRUE
## [1] " --> 68.58"
## [1] "r: 263 c: 25 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 263 c: 26 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 263 c: 27 ... old: in FALSE
## [1] "r: 263 c: 28 ... old: Right FALSE
## [1] "r: 263 c: 29 ... old: Right FALSE
## [1] "r: 263 c: 30 ... old: Blue FALSE
## [1] "r: 263 c: 31 ... old: Right FALSE
## [1] "r: 263 c: 33 ... old: Female FALSE
## [1] "r: 263 c: 36 ... old: White FALSE
## [1] "r: 263 c: 37 ... old: NA FALSE "
## [1] "r: 263 c: 38 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 263 c: 39 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 263 c: 40 ... old: 11.25 TRUE
## [1] " --> 28.575"
```

```
## [1] "r: 263 c: 41 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 263 c: 42 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 263 c: 43 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 263 c: 44 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 263 c: 45 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 263 c: 46 ... old: 35.25 TRUE
## [1] " --> 89.535"
## [1] "r: 264 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 264 c: 2 ... old: 1c2408654ef5a2fe1fc9620886294D43 FALSE
## [1] "r: 264 c: 3 ... old: left FALSE
## [1] "r: 264 c: 4 ... old: 63 TRUE
## [1] " --> 160.02"
## [1] "r: 264 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 264 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 264 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 264 c: 8 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 264 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 264 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 264 c: 11 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 264 c: 12 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 264 c: 13 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 264 c: 14 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 264 c: 15 ... old: 72 TRUE
## [1] " --> 182.88"
## [1] "r: 264 c: 16 ... old: 72 TRUE
## [1] " --> 182.88"
## [1] "r: 264 c: 17 ... old: 60 TRUE
## [1] " --> 152.4"
## [1] "r: 264 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 264 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 264 c: 20 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 264 c: 21 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 264 c: 22 ... old: 37
## [1] " --> 93.98"
## [1] "r: 264 c: 23 ... old: 37 TRUE
```

```
## [1] " --> 93.98"
## [1] "r: 264 c: 24 ... old: 39 TRUE
## [1] " --> 99.06"
## [1] "r: 264 c: 25 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 264 c: 26 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 264 c: 27 ... old: in FALSE
## [1] "r: 264 c: 28 ... old: Right FALSE
## [1] "r: 264 c: 29 ... old: Left FALSE
## [1] "r: 264 c: 30 ... old: Hazel FALSE
## [1] "r: 264 c: 31 ... old: Right FALSE
## [1] "r: 264 c: 33 ... old: Male FALSE
## [1] "r: 264 c: 36 ... old: White FALSE
## [1] "r: 264 c: 37 ... old: NA FALSE
## [1] "r: 264 c: 38 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 264 c: 39 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 264 c: 40 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 264 c: 41 ... old: 10.25
## [1] " --> 26.035"
## [1] "r: 264 c: 42 ... old: 72 TRUE
## [1] " --> 182.88"
## [1] "r: 264 c: 43 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 264 c: 44 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 264 c: 45 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 264 c: 46 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 265 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 265 c: 2 ... old: 1c2408654ef5a2fe1fc9620818A6683B FALSE
## [1] "r: 265 c: 3 ... old: left FALSE
## [1] "r: 265 c: 4 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 265 c: 5 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 265 c: 6 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 265 c: 7 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 265 c: 8 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 265 c: 9 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 265 c: 10 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 265 c: 11 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 265 c: 12 ... old: 11.25 TRUE
## [1] " --> 28.575"
```

```
## [1] "r: 265 c: 13 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 265 c: 14 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 265 c: 15 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 265 c: 16 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 265 c: 17 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 265 c: 18 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 265 c: 19 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 265 c: 20 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 265 c: 21 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 265 c: 22 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 265 c: 23 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 265 c: 24 ... old: 27 TRUE
## [1] " --> 68.58"
## [1] "r: 265 c: 25 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 265 c: 26 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 265 c: 27 ... old: in FALSE
## [1] "r: 265 c: 28 ... old: Right FALSE
## [1] "r: 265 c: 29 ... old: Right FALSE
## [1] "r: 265 c: 30 ... old: Blue FALSE
## [1] "r: 265 c: 31 ... old: Right FALSE
## [1] "r: 265 c: 33 ... old: Male FALSE
## [1] "r: 265 c: 36 ... old: White FALSE
## [1] "r: 265 c: 37 ... old: NA FALSE "
## [1] "r: 265 c: 38 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 265 c: 39 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 265 c: 40 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 265 c: 41 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 265 c: 42 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 265 c: 43 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 265 c: 44 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 265 c: 45 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 265 c: 46 ... old: 35.25 TRUE
## [1] " --> 89.535"
```

```
## [1] "r: 266 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 266 c: 2 ... old: 1c2408654ef5a2fe1fc9620886294D44 FALSE
## [1] "r: 266 c: 3 ... old: left FALSE
## [1] "r: 266 c: 4 ... old: 62.5 TRUE
## [1] " --> 158.75"
## [1] "r: 266 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 266 c: 6 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 266 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 266 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 266 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 266 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 266 c: 11 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 266 c: 12 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 266 c: 13 ... old: 11
## [1] " --> 27.94"
## [1] "r: 266 c: 14 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 266 c: 15 ... old: 26 TRUE
## [1] " --> 66.04"
## [1] "r: 266 c: 16 ... old: 27 TRUE
## [1] " --> 68.58"
## [1] "r: 266 c: 17 ... old: 3.5 TRUE
## [1] " --> 8.89"
## [1] "r: 266 c: 18 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 266 c: 19 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 266 c: 20 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 266 c: 21 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 266 c: 22 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 266 c: 23 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 266 c: 24 ... old: 39 TRUE
## [1] " --> 99.06"
## [1] "r: 266 c: 25 ... old: 50.5 TRUE
## [1] " --> 128.27"
## [1] "r: 266 c: 26 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 266 c: 27 ... old: in FALSE
## [1] "r: 266 c: 28 ... old: Right FALSE
## [1] "r: 266 c: 29 ... old: Right FALSE
## [1] "r: 266 c: 30 ... old: Blue FALSE
## [1] "r: 266 c: 31 ... old: Right FALSE
```

```
## [1] "r: 266 c: 33 ... old: Female FALSE
## [1] "r: 266 c: 36 ... old: White FALSE
## [1] "r: 266 c: 37 ... old: NA FALSE "
## [1] "r: 266 c: 38 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 266 c: 39 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 266 c: 40 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 266 c: 41 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 266 c: 42 ... old: 26.5 TRUE
## [1] " --> 67.31"
## [1] "r: 266 c: 43 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 266 c: 44 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 266 c: 45 ... old: 22.5 TRUE
## [1] " --> 57.15"
## [1] "r: 266 c: 46 ... old: 50.25 TRUE
## [1] " --> 127.635"
## [1] "r: 267 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 267 c: 2 ... old: 1c2408654ef5a2fe1fc96208F7E65151 FALSE
## [1] "r: 267 c: 3 ... old: left FALSE
## [1] "r: 267 c: 4 ... old: 62.5 TRUE
## [1] " --> 158.75"
## [1] "r: 267 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 267 c: 6 ... old: 21.75 TRUE
## [1] " --> 55.245"
## [1] "r: 267 c: 7 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 267 c: 8 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 267 c: 9 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 267 c: 10 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 267 c: 11 ... old: 14.75 TRUE
## [1] " --> 37.465"
## [1] "r: 267 c: 12 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 267 c: 13 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 267 c: 14 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 267 c: 15 ... old: 79.25 TRUE
## [1] " --> 201.295"
## [1] "r: 267 c: 16 ... old: 79.5 TRUE
## [1] " --> 201.93"
## [1] "r: 267 c: 17 ... old: 59.75 TRUE
## [1] " --> 151.765"
## [1] "r: 267 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
```

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## [1] "r: 267 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 267 c: 20 ... old: 15.5 TRUE
## [1] " --> 39.37"
## [1] "r: 267 c: 21 ... old: 15.5 TRUE
## [1] " --> 39.37"
## [1] "r: 267 c: 22 ... old: 35
## [1] " --> 88.9"
## [1] "r: 267 c: 23 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 267 c: 24 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 267 c: 25 ... old: 46.75 TRUE
## [1] " --> 118.745"
## [1] "r: 267 c: 26 ... old: 47 TRUE
## [1] " --> 119.38"
## [1] "r: 267 c: 27 ... old: in FALSE
## [1] "r: 267 c: 28 ... old: Right FALSE
## [1] "r: 267 c: 29 ... old: Right FALSE
## [1] "r: 267 c: 30 ... old: Green FALSE
## [1] "r: 267 c: 31 ... old: Right FALSE
## [1] "r: 267 c: 33 ... old: Female FALSE
## [1] "r: 267 c: 36 ... old: White FALSE
## [1] "r: 267 c: 37 ... old: none FALSE
## [1] "r: 267 c: 38 ... old: 6.625 TRUE
## [1] " --> 16.8275"
## [1] "r: 267 c: 39 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 267 c: 40 ... old: 14.875 TRUE
## [1] " --> 37.7825"
## [1] "r: 267 c: 41 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 267 c: 42 ... old: 79.375 TRUE
## [1] " --> 201.6125"
## [1] "r: 267 c: 43 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 267 c: 44 ... old: 15.5 TRUE
## [1] " --> 39.37"
## [1] "r: 267 c: 45 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 267 c: 46 ... old: 46.875 TRUE
## [1] " --> 119.0625"
## [1] "r: 268 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 268 c: 2 ... old: 1c2408654ef5a2fe1fc962081BCAE6A7 FALSE
## [1] "r: 268 c: 3 ... old: left FALSE
## [1] "r: 268 c: 4 ... old: 68 TRUE
## [1] " --> 172.72"
## [1] "r: 268 c: 5 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 268 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 268 c: 7 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 268 c: 8 ... old: 7.25 TRUE
```

```
## [1] " --> 18.415"
## [1] "r: 268 c: 9 ... old: 3.5 TRUE
## [1] " --> 8.89"
## [1] "r: 268 c: 10 ... old: 3.75 TRUE
## [1] " --> 9.525"
## [1] "r: 268 c: 11 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 268 c: 12 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 268 c: 13 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 268 c: 14 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 268 c: 15 ... old: 56 TRUE
## [1] " --> 142.24"
## [1] "r: 268 c: 16 ... old: 56 TRUE
## [1] " --> 142.24"
## [1] "r: 268 c: 17 ... old: 66 TRUE
## [1] " --> 167.64"
## [1] "r: 268 c: 18 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 268 c: 19 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 268 c: 20 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 268 c: 21 ... old: 18
## [1] " --> 45.72"
## [1] "r: 268 c: 22 ... old: 35
                                 TRUE
## [1] " --> 88.9"
## [1] "r: 268 c: 23 ... old: 35
                                 TRUE
## [1] " --> 88.9"
## [1] "r: 268 c: 24 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 268 c: 25 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 268 c: 26 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 268 c: 27 ... old: in FALSE
## [1] "r: 268 c: 28 ... old: Right FALSE
## [1] "r: 268 c: 29 ... old: Right FALSE
## [1] "r: 268 c: 30 ... old: Hazel FALSE
## [1] "r: 268 c: 31 ... old: Right FALSE
## [1] "r: 268 c: 33 ... old: Female FALSE
## [1] "r: 268 c: 36 ... old: White FALSE
## [1] "r: 268 c: 37 ... old: English, Scottish, Irish, Italian, Slovakian decent FALSE
## [1] "r: 268 c: 38 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 268 c: 39 ... old: 3.625 TRUE
## [1] " --> 9.2075"
## [1] "r: 268 c: 40 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 268 c: 41 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 268 c: 42 ... old: 56 TRUE
```

```
## [1] " --> 142.24"
## [1] "r: 268 c: 43 ... old: 9.125 TRUE
## [1] " --> 23.1775"
## [1] "r: 268 c: 44 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 268 c: 45 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 268 c: 46 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 269 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 269 c: 2 ... old: 1c2408654ef5a2fe1fc96208D879E889 FALSE
## [1] "r: 269 c: 3 ... old: left FALSE
## [1] "r: 269 c: 4 ... old: 71 TRUE
## [1] " --> 180.34"
## [1] "r: 269 c: 5 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 269 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 269 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 269 c: 8 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 269 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 269 c: 10 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 269 c: 11 ... old: 17.5
## [1] " --> 44.45"
## [1] "r: 269 c: 12 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 269 c: 13 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 269 c: 14 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 269 c: 15 ... old: 59 TRUE
## [1] " --> 149.86"
## [1] "r: 269 c: 16 ... old: 59
## [1] " --> 149.86"
## [1] "r: 269 c: 17 ... old: 74 TRUE
## [1] " --> 187.96"
## [1] "r: 269 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 269 c: 19 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 269 c: 20 ... old: 17.5
## [1] " --> 44.45"
## [1] "r: 269 c: 21 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 269 c: 22 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 269 c: 23 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 269 c: 24 ... old: 42 TRUE
## [1] " --> 106.68"
```

```
## [1] "r: 269 c: 25 ... old: 55 TRUE
## [1] " --> 139.7"
## [1] "r: 269 c: 26 ... old: 55 TRUE
## [1] " --> 139.7"
## [1] "r: 269 c: 27 ... old: in FALSE
## [1] "r: 269 c: 28 ... old: Left FALSE
## [1] "r: 269 c: 29 ... old: Left FALSE
## [1] "r: 269 c: 30 ... old: Brown FALSE
## [1] "r: 269 c: 31 ... old: Left FALSE
## [1] "r: 269 c: 33 ... old: Female FALSE
## [1] "r: 269 c: 36 ... old: White FALSE
## [1] "r: 269 c: 37 ... old: English and Russian FALSE
## [1] "r: 269 c: 38 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 269 c: 39 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 269 c: 40 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 269 c: 41 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 269 c: 42 ... old: 59 TRUE
## [1] " --> 149.86"
## [1] "r: 269 c: 43 ... old: 9.625 TRUE
## [1] " --> 24.4475"
## [1] "r: 269 c: 44 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 269 c: 45 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 269 c: 46 ... old: 55 TRUE
## [1] " --> 139.7"
## [1] "r: 272 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 272 c: 2 ... old: 1c2408654ef5a2fe1fc9620886294D42 FALSE
## [1] "r: 272 c: 3 ... old: left FALSE
## [1] "r: 272 c: 4 ... old: 70 TRUE
## [1] " --> 177.8"
## [1] "r: 272 c: 5 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 272 c: 6 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 272 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 272 c: 8 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 272 c: 9 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 272 c: 10 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 272 c: 11 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 272 c: 12 ... old: 19
## [1] " --> 48.26"
## [1] "r: 272 c: 13 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 272 c: 14 ... old: 12 TRUE
```

```
## [1] " --> 30.48"
## [1] "r: 272 c: 15 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 272 c: 16 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 272 c: 17 ... old: 70 TRUE
## [1] " --> 177.8"
## [1] "r: 272 c: 18 ... old: 10
## [1] " --> 25.4"
## [1] "r: 272 c: 19 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 272 c: 20 ... old: 20
                                 TRUE
## [1] " --> 50.8"
## [1] "r: 272 c: 21 ... old: 20
## [1] " --> 50.8"
## [1] "r: 272 c: 22 ... old: 39
## [1] " --> 99.06"
## [1] "r: 272 c: 23 ... old: 39
## [1] " --> 99.06"
## [1] "r: 272 c: 24 ... old: 42
## [1] " --> 106.68"
## [1] "r: 272 c: 25 ... old: 50
## [1] " --> 127"
## [1] "r: 272 c: 26 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 272 c: 27 ... old: in FALSE
## [1] "r: 272 c: 28 ... old: Right FALSE
## [1] "r: 272 c: 29 ... old: Right FALSE
## [1] "r: 272 c: 30 ... old: Brown FALSE
## [1] "r: 272 c: 31 ... old: Right FALSE
## [1] "r: 272 c: 33 ... old: Male FALSE
## [1] "r: 272 c: 36 ... old: Hispanic FALSE
## [1] "r: 272 c: 37 ... old: Mexican FALSE
## [1] "r: 272 c: 38 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 272 c: 39 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 272 c: 40 ... old: 19
                                 TRUE
## [1] " --> 48.26"
## [1] "r: 272 c: 41 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 272 c: 42 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 272 c: 43 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 272 c: 44 ... old: 20
## [1] " --> 50.8"
## [1] "r: 272 c: 45 ... old: 39 TRUE
## [1] " --> 99.06"
## [1] "r: 272 c: 46 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 273 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 273 c: 2 ... old: 1c2408654ef5a2fe1fc9620818A6683B FALSE
## [1] "r: 273 c: 3 ... old: left FALSE "
```

```
## [1] "r: 273 c: 4 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 273 c: 5 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 273 c: 6 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 273 c: 7 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 273 c: 8 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 273 c: 9 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 273 c: 10 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 273 c: 11 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 273 c: 12 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 273 c: 13 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 273 c: 14 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 273 c: 15 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 273 c: 16 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 273 c: 17 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 273 c: 18 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 273 c: 19 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 273 c: 20 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 273 c: 21 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 273 c: 22 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 273 c: 23 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 273 c: 24 ... old: 27 TRUE
## [1] " --> 68.58"
## [1] "r: 273 c: 25 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 273 c: 26 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 273 c: 27 ... old: in FALSE
## [1] "r: 273 c: 28 ... old: Right FALSE
## [1] "r: 273 c: 29 ... old: Right FALSE
## [1] "r: 273 c: 30 ... old: Blue FALSE
## [1] "r: 273 c: 31 ... old: Right FALSE
## [1] "r: 273 c: 33 ... old: Female FALSE
## [1] "r: 273 c: 36 ... old: White FALSE
## [1] "r: 273 c: 37 ... old: NA FALSE
```

```
## [1] "r: 273 c: 38 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 273 c: 39 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 273 c: 40 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 273 c: 41 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 273 c: 42 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 273 c: 43 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 273 c: 44 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 273 c: 45 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 273 c: 46 ... old: 35.25 TRUE
## [1] " --> 89.535"
## [1] "r: 274 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 274 c: 2 ... old: 1c2408654ef5a2fe1fc9620886294D43 FALSE
## [1] "r: 274 c: 3 ... old: left FALSE
## [1] "r: 274 c: 4 ... old: 63 TRUE
## [1] " --> 160.02"
## [1] "r: 274 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 274 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 274 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 274 c: 8 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 274 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 274 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 274 c: 11 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 274 c: 12 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 274 c: 13 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 274 c: 14 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 274 c: 15 ... old: 72 TRUE
## [1] " --> 182.88"
## [1] "r: 274 c: 16 ... old: 72 TRUE
## [1] " --> 182.88"
## [1] "r: 274 c: 17 ... old: 60 TRUE
## [1] " --> 152.4"
## [1] "r: 274 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 274 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 274 c: 20 ... old: 18 TRUE
```

```
## [1] " --> 45.72"
## [1] "r: 274 c: 21 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 274 c: 22 ... old: 37
                                 TRUE
## [1] " --> 93.98"
## [1] "r: 274 c: 23 ... old: 37
                                 TRUE
## [1] " --> 93.98"
## [1] "r: 274 c: 24 ... old: 39
## [1] " --> 99.06"
## [1] "r: 274 c: 25 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 274 c: 26 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 274 c: 27 ... old: in FALSE
## [1] "r: 274 c: 28 ... old: Right FALSE
## [1] "r: 274 c: 29 ... old: Left FALSE
## [1] "r: 274 c: 30 ... old: Hazel FALSE
## [1] "r: 274 c: 31 ... old: Right FALSE
## [1] "r: 274 c: 33 ... old: Male FALSE
## [1] "r: 274 c: 36 ... old: White FALSE
## [1] "r: 274 c: 37 ... old: NA FALSE
## [1] "r: 274 c: 38 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 274 c: 39 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 274 c: 40 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 274 c: 41 ... old: 10.25 TRUE
## [1] " --> 26.035"
## [1] "r: 274 c: 42 ... old: 72 TRUE
## [1] " --> 182.88"
## [1] "r: 274 c: 43 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 274 c: 44 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 274 c: 45 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 274 c: 46 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 275 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 275 c: 2 ... old: 1c2408654ef5a2fe1fc9620818A6683B FALSE
## [1] "r: 275 c: 3 ... old: left FALSE
## [1] "r: 275 c: 4 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 275 c: 5 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 275 c: 6 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 275 c: 7 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 275 c: 8 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 275 c: 9 ... old: 5.5 TRUE
## [1] " --> 13.97"
```

```
## [1] "r: 275 c: 10 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 275 c: 11 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 275 c: 12 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 275 c: 13 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 275 c: 14 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 275 c: 15 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 275 c: 16 ... old: 57
                                 TRUE
## [1] " --> 144.78"
## [1] "r: 275 c: 17 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 275 c: 18 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 275 c: 19 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 275 c: 20 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 275 c: 21 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 275 c: 22 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 275 c: 23 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 275 c: 24 ... old: 27 TRUE
## [1] " --> 68.58"
## [1] "r: 275 c: 25 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 275 c: 26 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 275 c: 27 ... old: in FALSE
## [1] "r: 275 c: 28 ... old: Right FALSE
## [1] "r: 275 c: 29 ... old: Right FALSE
## [1] "r: 275 c: 30 ... old: Blue FALSE
## [1] "r: 275 c: 31 ... old: Right FALSE
## [1] "r: 275 c: 33 ... old: Male FALSE
## [1] "r: 275 c: 36 ... old: White FALSE
## [1] "r: 275 c: 37 ... old: NA FALSE
## [1] "r: 275 c: 38 ... old: 5 TRUE
## [1] " --> 12.7"
## [1] "r: 275 c: 39 ... old: 5.5 TRUE
## [1] " --> 13.97"
## [1] "r: 275 c: 40 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 275 c: 41 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 275 c: 42 ... old: 57 TRUE
## [1] " --> 144.78"
## [1] "r: 275 c: 43 ... old: 7 TRUE
## [1] " --> 17.78"
```

```
## [1] "r: 275 c: 44 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 275 c: 45 ... old: 24.5 TRUE
## [1] " --> 62.23"
## [1] "r: 275 c: 46 ... old: 35.25 TRUE
## [1] " --> 89.535"
## [1] "r: 276 c: 1 ... old: 411f8b5c9500b7cc928c93dd1a0006b7 FALSE
## [1] "r: 276 c: 2 ... old: 1c2408654ef5a2fe1fc9620886294D44 FALSE
## [1] "r: 276 c: 3 ... old: left FALSE
## [1] "r: 276 c: 4 ... old: 62.5 TRUE
## [1] " --> 158.75"
## [1] "r: 276 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 276 c: 6 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 276 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 276 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 276 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 276 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 276 c: 11 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 276 c: 12 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 276 c: 13 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 276 c: 14 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 276 c: 15 ... old: 26 TRUE
## [1] " --> 66.04"
## [1] "r: 276 c: 16 ... old: 27 TRUE
## [1] " --> 68.58"
## [1] "r: 276 c: 17 ... old: 3.5 TRUE
## [1] " --> 8.89"
## [1] "r: 276 c: 18 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 276 c: 19 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 276 c: 20 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 276 c: 21 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 276 c: 22 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 276 c: 23 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 276 c: 24 ... old: 39 TRUE
## [1] " --> 99.06"
## [1] "r: 276 c: 25 ... old: 50.5 TRUE
## [1] " --> 128.27"
## [1] "r: 276 c: 26 ... old: 50 TRUE
```

```
## [1] " --> 127"
## [1] "r: 276 c: 27 ... old: in FALSE
## [1] "r: 276 c: 28 ... old: Right FALSE
## [1] "r: 276 c: 29 ... old: Right FALSE
## [1] "r: 276 c: 30 ... old: Blue FALSE
## [1] "r: 276 c: 31 ... old: Right FALSE
## [1] "r: 276 c: 33 ... old: Female FALSE
## [1] "r: 276 c: 36 ... old: White FALSE
## [1] "r: 276 c: 37 ... old: NA FALSE "
## [1] "r: 276 c: 38 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 276 c: 39 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 276 c: 40 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 276 c: 41 ... old: 11.5 TRUE
## [1] " --> 29.21"
## [1] "r: 276 c: 42 ... old: 26.5 TRUE
## [1] " --> 67.31"
## [1] "r: 276 c: 43 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 276 c: 44 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 276 c: 45 ... old: 22.5 TRUE
## [1] " --> 57.15"
## [1] "r: 276 c: 46 ... old: 50.25 TRUE
## [1] " --> 127.635"
## [1] "r: 297 c: 1 ... old: 58056c4dc037cb0dbba1ad30215034da FALSE
## [1] "r: 297 c: 2 ... old: 2cb006f5af92908e10f658a662e1d5dc FALSE
## [1] "r: 297 c: 3 ... old: left FALSE
## [1] "r: 297 c: 4 ... old: 61.5 TRUE
## [1] " --> 156.21"
## [1] "r: 297 c: 5 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 297 c: 6 ... old: 21.25 TRUE
## [1] " --> 53.975"
## [1] "r: 297 c: 7 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 297 c: 8 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 297 c: 9 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 297 c: 10 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 297 c: 11 ... old: 14.75
## [1] " --> 37.465"
## [1] "r: 297 c: 12 ... old: 14.75 TRUE
## [1] " --> 37.465"
## [1] "r: 297 c: 13 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 297 c: 14 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 297 c: 15 ... old: 76 TRUE
## [1] " --> 193.04"
```

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## [1] "r: 297 c: 16 ... old: 77 TRUE
## [1] " --> 195.58"
## [1] "r: 297 c: 17 ... old: 60.25 TRUE
## [1] " --> 153.035"
## [1] "r: 297 c: 18 ... old: 8.66 TRUE
## [1] " --> 21.9964"
## [1] "r: 297 c: 19 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 297 c: 20 ... old: 14.66 TRUE
## [1] " --> 37.2364"
## [1] "r: 297 c: 21 ... old: 14.75 TRUE
## [1] " --> 37.465"
## [1] "r: 297 c: 22 ... old: 34.75 TRUE
## [1] " --> 88.265"
## [1] "r: 297 c: 23 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 297 c: 24 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 297 c: 25 ... old: 48.5 TRUE
## [1] " --> 123.19"
## [1] "r: 297 c: 26 ... old: 48.66 TRUE
## [1] " --> 123.5964"
## [1] "r: 297 c: 27 ... old: in FALSE
## [1] "r: 297 c: 28 ... old: right FALSE
## [1] "r: 297 c: 29 ... old: right FALSE
## [1] "r: 297 c: 30 ... old: blue FALSE
## [1] "r: 297 c: 31 ... old: rigth FALSE
## [1] "r: 297 c: 33 ... old: female FALSE
## [1] "r: 297 c: 36 ... old: white FALSE
## [1] "r: 297 c: 37 ... old: Possible Irish descent FALSE
## [1] "r: 297 c: 38 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 297 c: 39 ... old: 6.625 TRUE
## [1] " --> 16.8275"
## [1] "r: 297 c: 40 ... old: 14.75
## [1] " --> 37.465"
## [1] "r: 297 c: 41 ... old: 9.625
## [1] " --> 24.4475"
## [1] "r: 297 c: 42 ... old: 76.5 TRUE
## [1] " --> 194.31"
## [1] "r: 297 c: 43 ... old: 8.58 TRUE
## [1] " --> 21.7932"
## [1] "r: 297 c: 44 ... old: 14.705 TRUE
## [1] " --> 37.3507"
## [1] "r: 297 c: 45 ... old: 34.875
## [1] " --> 88.5825"
## [1] "r: 297 c: 46 ... old: 48.58 TRUE
## [1] " --> 123.3932"
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## [1] "r: 298 c: 2 ... old: 5b6caf13d5494dbcf97f7cbc08fb4474 FALSE
## [1] "r: 298 c: 3 ... old: left FALSE
## [1] "r: 298 c: 4 ... old: 70 TRUE
## [1] " --> 177.8"
## [1] "r: 298 c: 5 ... old: 9.25 TRUE
```

```
## [1] " --> 23.495"
## [1] "r: 298 c: 6 ... old: 22.5 TRUE
## [1] " --> 57.15"
## [1] "r: 298 c: 7 ... old: 7.33 TRUE
## [1] " --> 18.6182"
## [1] "r: 298 c: 8 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 298 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 298 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 298 c: 11 ... old: 18.5 TRUE
## [1] " --> 46.99"
## [1] "r: 298 c: 12 ... old: 18.5 TRUE
## [1] " --> 46.99"
## [1] "r: 298 c: 13 ... old: 13.33 TRUE
## [1] " --> 33.8582"
## [1] "r: 298 c: 14 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 298 c: 15 ... old: 88.875 TRUE
## [1] " --> 225.7425"
## [1] "r: 298 c: 16 ... old: 88.75 TRUE
## [1] " --> 225.425"
## [1] "r: 298 c: 17 ... old: 74 TRUE
## [1] " --> 187.96"
## [1] "r: 298 c: 18 ... old: 10.66 TRUE
## [1] " --> 27.0764"
## [1] "r: 298 c: 19 ... old: 10.66
## [1] " --> 27.0764"
## [1] "r: 298 c: 20 ... old: 19.75
                                    TRUE
## [1] " --> 50.165"
## [1] "r: 298 c: 21 ... old: 19.66 TRUE
## [1] " --> 49.9364"
## [1] "r: 298 c: 22 ... old: 40.33
## [1] " --> 102.4382"
## [1] "r: 298 c: 23 ... old: 40.25 TRUE
## [1] " --> 102.235"
## [1] "r: 298 c: 24 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 298 c: 25 ... old: 53.5 TRUE
## [1] " --> 135.89"
## [1] "r: 298 c: 26 ... old: 53.5 TRUE
## [1] " --> 135.89"
## [1] "r: 298 c: 27 ... old: in FALSE
## [1] "r: 298 c: 28 ... old: right FALSE
## [1] "r: 298 c: 29 ... old: right FALSE
## [1] "r: 298 c: 30 ... old: brown FALSE
## [1] "r: 298 c: 31 ... old: right FALSE
## [1] "r: 298 c: 33 ... old: male FALSE
## [1] "r: 298 c: 36 ... old: white FALSE
## [1] "r: 298 c: 37 ... old: NA FALSE "
## [1] "r: 298 c: 38 ... old: 7.415 TRUE
## [1] " --> 18.8341"
## [1] "r: 298 c: 39 ... old: 8 TRUE
```

```
## [1] " --> 20.32"
## [1] "r: 298 c: 40 ... old: 18.5 TRUE
## [1] " --> 46.99"
## [1] "r: 298 c: 41 ... old: 13.165 TRUE
## [1] " --> 33.4391"
## [1] "r: 298 c: 42 ... old: 88.8125 TRUE
## [1] " --> 225.58375"
## [1] "r: 298 c: 43 ... old: 10.66 TRUE
## [1] " --> 27.0764"
## [1] "r: 298 c: 44 ... old: 19.705 TRUE
## [1] " --> 50.0507"
## [1] "r: 298 c: 45 ... old: 40.29 TRUE
## [1] " --> 102.3366"
## [1] "r: 298 c: 46 ... old: 53.5 TRUE
## [1] " --> 135.89"
## [1] "r: 299 c: 1 ... old: 58056c4dc037cb0dbba1ad30215034da FALSE
## [1] "r: 299 c: 2 ... old: 25e38df28480f96f016e14a314fe3c78 FALSE
## [1] "r: 299 c: 3 ... old: left FALSE
## [1] "r: 299 c: 4 ... old: 59.875 TRUE
## [1] " --> 152.0825"
## [1] "r: 299 c: 5 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 299 c: 6 ... old: 20.5 TRUE
## [1] " --> 52.07"
## [1] "r: 299 c: 7 ... old: 7.45 TRUE
## [1] " --> 18.923"
## [1] "r: 299 c: 8 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 299 c: 9 ... old: 7.66 TRUE
## [1] " --> 19.4564"
## [1] "r: 299 c: 10 ... old: 7.66 TRUE
## [1] " --> 19.4564"
## [1] "r: 299 c: 11 ... old: 16.25
## [1] " --> 41.275"
## [1] "r: 299 c: 12 ... old: 16.25
## [1] " --> 41.275"
## [1] "r: 299 c: 13 ... old: 9.875
## [1] " --> 25.0825"
## [1] "r: 299 c: 14 ... old: 9.875
## [1] " --> 25.0825"
## [1] "r: 299 c: 15 ... old: 75.66 TRUE
## [1] " --> 192.1764"
## [1] "r: 299 c: 16 ... old: 75.5 TRUE
## [1] " --> 191.77"
## [1] "r: 299 c: 17 ... old: 59 TRUE
## [1] " --> 149.86"
## [1] "r: 299 c: 18 ... old: 8.66 TRUE
## [1] " --> 21.9964"
## [1] "r: 299 c: 19 ... old: 8.66 TRUE
## [1] " --> 21.9964"
## [1] "r: 299 c: 20 ... old: 16.33 TRUE
## [1] " --> 41.4782"
## [1] "r: 299 c: 21 ... old: 16.25 TRUE
## [1] " --> 41.275"
```

```
## [1] "r: 299 c: 22 ... old: 34 TRUE
## [1] " --> 86.36"
## [1] "r: 299 c: 23 ... old: 34.1 TRUE
## [1] " --> 86.614"
## [1] "r: 299 c: 24 ... old: 34.25
## [1] " --> 86.995"
## [1] "r: 299 c: 25 ... old: 48.75
## [1] " --> 123.825"
## [1] "r: 299 c: 26 ... old: 48.66 TRUE
## [1] " --> 123.5964"
## [1] "r: 299 c: 27 ... old: in FALSE
## [1] "r: 299 c: 28 ... old: right FALSE
## [1] "r: 299 c: 29 ... old: right FALSE
## [1] "r: 299 c: 30 ... old: blue FALSE
## [1] "r: 299 c: 31 ... old: right FALSE
## [1] "r: 299 c: 33 ... old: female FALSE
## [1] "r: 299 c: 36 ... old: white FALSE
## [1] "r: 299 c: 37 ... old: NA FALSE
## [1] "r: 299 c: 38 ... old: 7.475 TRUE
## [1] " --> 18.9865"
## [1] "r: 299 c: 39 ... old: 7.66 TRUE
## [1] " --> 19.4564"
## [1] "r: 299 c: 40 ... old: 16.25
                                   TRUE
## [1] " --> 41.275"
## [1] "r: 299 c: 41 ... old: 9.875 TRUE
## [1] " --> 25.0825"
## [1] "r: 299 c: 42 ... old: 75.58
                                    TRUE
## [1] " --> 191.9732"
## [1] "r: 299 c: 43 ... old: 8.66 TRUE
## [1] " --> 21.9964"
## [1] "r: 299 c: 44 ... old: 16.29
## [1] " --> 41.3766"
## [1] "r: 299 c: 45 ... old: 34.05 TRUE
## [1] " --> 86.487"
## [1] "r: 299 c: 46 ... old: 48.705 TRUE
## [1] " --> 123.7107"
## [1] "r: 300 c: 1 ... old: 58056c4dc037cb0dbba1ad30215034da FALSE
## [1] "r: 300 c: 2 ... old: c2a09d55305b52aad95a25a11f4a6e9f FALSE
## [1] "r: 300 c: 3 ... old: left FALSE
## [1] "r: 300 c: 4 ... old: 69.66 TRUE
## [1] " --> 176.9364"
## [1] "r: 300 c: 5 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 300 c: 6 ... old: 21.25 TRUE
## [1] " --> 53.975"
## [1] "r: 300 c: 7 ... old: 8.25
                                  TRUE
## [1] " --> 20.955"
## [1] "r: 300 c: 8 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 300 c: 9 ... old: 9.1 TRUE
## [1] " --> 23.114"
## [1] "r: 300 c: 10 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 300 c: 11 ... old: 18.33 TRUE
```

```
## [1] " --> 46.5582"
## [1] "r: 300 c: 12 ... old: 18.1 TRUE
## [1] " --> 45.974"
## [1] "r: 300 c: 13 ... old: 13.25
                                    TRUE
## [1] " --> 33.655"
## [1] "r: 300 c: 14 ... old: 13.33
                                    TRUE
## [1] " --> 33.8582"
## [1] "r: 300 c: 15 ... old: 87.75
## [1] " --> 222.885"
## [1] "r: 300 c: 16 ... old: 87.875 TRUE
## [1] " --> 223.2025"
## [1] "r: 300 c: 17 ... old: 69.875 TRUE
## [1] " --> 177.4825"
## [1] "r: 300 c: 18 ... old: 9.9 TRUE
## [1] " --> 25.146"
## [1] "r: 300 c: 19 ... old: 9.875 TRUE
## [1] " --> 25.0825"
## [1] "r: 300 c: 20 ... old: 17.75 TRUE
## [1] " --> 45.085"
## [1] "r: 300 c: 21 ... old: 17.875 TRUE
## [1] " --> 45.4025"
## [1] "r: 300 c: 22 ... old: 39.5 TRUE
## [1] " --> 100.33"
## [1] "r: 300 c: 23 ... old: 39.33 TRUE
## [1] " --> 99.8982"
## [1] "r: 300 c: 24 ... old: 40.1 TRUE
## [1] " --> 101.854"
## [1] "r: 300 c: 25 ... old: 53.875 TRUE
## [1] " --> 136.8425"
## [1] "r: 300 c: 26 ... old: 53.5 TRUE
## [1] " --> 135.89"
## [1] "r: 300 c: 27 ... old: in FALSE
## [1] "r: 300 c: 28 ... old: right FALSE
## [1] "r: 300 c: 29 ... old: right FALSE
## [1] "r: 300 c: 30 ... old: blue FALSE
## [1] "r: 300 c: 31 ... old: right FALSE
## [1] "r: 300 c: 33 ... old: male FALSE
## [1] "r: 300 c: 36 ... old: white FALSE
## [1] "r: 300 c: 37 ... old: NA FALSE
## [1] "r: 300 c: 38 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 300 c: 39 ... old: 9.05 TRUE
## [1] " --> 22.987"
## [1] "r: 300 c: 40 ... old: 18.215 TRUE
## [1] " --> 46.2661"
## [1] "r: 300 c: 41 ... old: 13.29 TRUE
## [1] " --> 33.7566"
## [1] "r: 300 c: 42 ... old: 87.8125 TRUE
## [1] " --> 223.04375"
## [1] "r: 300 c: 43 ... old: 9.8875 TRUE
## [1] " --> 25.11425"
## [1] "r: 300 c: 44 ... old: 17.8125
## [1] " --> 45.24375"
## [1] "r: 300 c: 45 ... old: 39.415 TRUE
```

```
## [1] " --> 100.1141"
## [1] "r: 300 c: 46 ... old: 53.6875 TRUE
## [1] " --> 136.36625"
## [1] "r: 301 c: 1 ... old: 58056c4dc037cb0dbba1ad30215034da FALSE
## [1] "r: 301 c: 2 ... old: 739d1aeb9df6ab5010aa49d84ffee8ed FALSE
## [1] "r: 301 c: 3 ... old: left FALSE
## [1] "r: 301 c: 4 ... old: 63.75 TRUE
## [1] " --> 161.925"
## [1] "r: 301 c: 5 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 301 c: 6 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 301 c: 7 ... old: 7.25
                                  TRUE
## [1] " --> 18.415"
## [1] "r: 301 c: 8 ... old: 7.25
                                  TRUE
## [1] " --> 18.415"
## [1] "r: 301 c: 9 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 301 c: 10 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 301 c: 11 ... old: 17.25 TRUE
## [1] " --> 43.815"
## [1] "r: 301 c: 12 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 301 c: 13 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 301 c: 14 ... old: 12.5 TRUE
## [1] " --> 31.75"
## [1] "r: 301 c: 15 ... old: 80 TRUE
## [1] " --> 203.2"
## [1] "r: 301 c: 16 ... old: 80 TRUE
## [1] " --> 203.2"
## [1] "r: 301 c: 17 ... old: 63.25 TRUE
## [1] " --> 160.655"
## [1] "r: 301 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 301 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 301 c: 20 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 301 c: 21 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 301 c: 22 ... old: 37
## [1] " --> 93.98"
## [1] "r: 301 c: 23 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 301 c: 24 ... old: 37.5 TRUE
## [1] " --> 95.25"
## [1] "r: 301 c: 25 ... old: 51 TRUE
## [1] " --> 129.54"
## [1] "r: 301 c: 26 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 301 c: 27 ... old: in FALSE
## [1] "r: 301 c: 28 ... old: right FALSE
```

```
## [1] "r: 301 c: 29 ... old: right FALSE
## [1] "r: 301 c: 30 ... old: brown FALSE
## [1] "r: 301 c: 31 ... old: right FALSE
## [1] "r: 301 c: 33 ... old: female FALSE
## [1] "r: 301 c: 36 ... old: white FALSE
## [1] "r: 301 c: 37 ... old: NA FALSE
## [1] "r: 301 c: 38 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 301 c: 39 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 301 c: 40 ... old: 17.375 TRUE
## [1] " --> 44.1325"
## [1] "r: 301 c: 41 ... old: 12.75 TRUE
## [1] " --> 32.385"
## [1] "r: 301 c: 42 ... old: 80 TRUE
## [1] " --> 203.2"
## [1] "r: 301 c: 43 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 301 c: 44 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 301 c: 45 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 301 c: 46 ... old: 51.5 TRUE
## [1] " --> 130.81"
## [1] "r: 302 c: 1 ... old: 58056c4dc037cb0dbba1ad30215034da FALSE
## [1] "r: 302 c: 2 ... old: dcb3e11bbe723cfa77314f8e5fd010c7 FALSE
## [1] "r: 302 c: 3 ... old: left FALSE
## [1] "r: 302 c: 4 ... old: 72 TRUE
## [1] " --> 182.88"
## [1] "r: 302 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 302 c: 6 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 302 c: 7 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 302 c: 8 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 302 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 302 c: 10 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 302 c: 11 ... old: 18.75 TRUE
## [1] " --> 47.625"
## [1] "r: 302 c: 12 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 302 c: 13 ... old: 13.5 TRUE
## [1] " --> 34.29"
## [1] "r: 302 c: 14 ... old: 13.5 TRUE
## [1] " --> 34.29"
## [1] "r: 302 c: 15 ... old: 92.25
## [1] " --> 234.315"
## [1] "r: 302 c: 16 ... old: 92.5
## [1] " --> 234.95"
## [1] "r: 302 c: 17 ... old: 73.5 TRUE
```

```
## [1] " --> 186.69"
## [1] "r: 302 c: 18 ... old: 10.25 TRUE
## [1] " --> 26.035"
## [1] "r: 302 c: 19 ... old: 10.25 TRUE
## [1] " --> 26.035"
## [1] "r: 302 c: 20 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 302 c: 21 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 302 c: 22 ... old: 42.75 TRUE
## [1] " --> 108.585"
## [1] "r: 302 c: 23 ... old: 42 TRUE
## [1] " --> 106.68"
## [1] "r: 302 c: 24 ... old: 44.5 TRUE
## [1] " --> 113.03"
## [1] "r: 302 c: 25 ... old: 60.5 TRUE
## [1] " --> 153.67"
## [1] "r: 302 c: 26 ... old: 61 TRUE
## [1] " --> 154.94"
## [1] "r: 302 c: 27 ... old: in FALSE
## [1] "r: 302 c: 28 ... old: right FALSE
## [1] "r: 302 c: 29 ... old: right FALSE
## [1] "r: 302 c: 30 ... old: hazel FALSE
## [1] "r: 302 c: 31 ... old: right FALSE
## [1] "r: 302 c: 33 ... old: male FALSE
## [1] "r: 302 c: 36 ... old: white FALSE
## [1] "r: 302 c: 37 ... old: Had stroke, left side affected FALSE
## [1] "r: 302 c: 38 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 302 c: 39 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 302 c: 40 ... old: 18.875 TRUE
## [1] " --> 47.9425"
## [1] "r: 302 c: 41 ... old: 13.5 TRUE
## [1] " --> 34.29"
## [1] "r: 302 c: 42 ... old: 92.375 TRUE
## [1] " --> 234.6325"
## [1] "r: 302 c: 43 ... old: 10.25 TRUE
## [1] " --> 26.035"
## [1] "r: 302 c: 44 ... old: 20.5 TRUE
## [1] " --> 52.07"
## [1] "r: 302 c: 45 ... old: 42.375 TRUE
## [1] " --> 107.6325"
## [1] "r: 302 c: 46 ... old: 60.75 TRUE
## [1] " --> 154.305"
## [1] "r: 303 c: 1 ... old: 58056c4dc037cb0dbba1ad30215034da FALSE
## [1] "r: 303 c: 2 ... old: b08ccacdf72360c9419bed8e73f81fab FALSE
## [1] "r: 303 c: 3 ... old: left FALSE
## [1] "r: 303 c: 4 ... old: 63 TRUE
## [1] " --> 160.02"
## [1] "r: 303 c: 5 ... old: 8.33 TRUE
## [1] " --> 21.1582"
## [1] "r: 303 c: 6 ... old: 20.5 TRUE
## [1] " --> 52.07"
```

```
## [1] "r: 303 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 303 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 303 c: 9 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 303 c: 10 ... old: 7.33 TRUE
## [1] " --> 18.6182"
## [1] "r: 303 c: 11 ... old: 16.1 TRUE
## [1] " --> 40.894"
## [1] "r: 303 c: 12 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 303 c: 13 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 303 c: 14 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 303 c: 15 ... old: 80.25 TRUE
## [1] " --> 203.835"
## [1] "r: 303 c: 16 ... old: 80.33 TRUE
## [1] " --> 204.0382"
## [1] "r: 303 c: 17 ... old: 62.25 TRUE
## [1] " --> 158.115"
## [1] "r: 303 c: 18 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 303 c: 19 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 303 c: 20 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 303 c: 21 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 303 c: 22 ... old: 34.1 TRUE
## [1] " --> 86.614"
## [1] "r: 303 c: 23 ... old: 34.25 TRUE
## [1] " --> 86.995"
## [1] "r: 303 c: 24 ... old: 34.5 TRUE
## [1] " --> 87.63"
## [1] "r: 303 c: 25 ... old: 50.875 TRUE
## [1] " --> 129.2225"
## [1] "r: 303 c: 26 ... old: 50.75 TRUE
## [1] " --> 128.905"
## [1] "r: 303 c: 27 ... old: in FALSE
## [1] "r: 303 c: 28 ... old: right FALSE
## [1] "r: 303 c: 29 ... old: right FALSE
## [1] "r: 303 c: 30 ... old: hazel FALSE
## [1] "r: 303 c: 31 ... old: right FALSE
## [1] "r: 303 c: 33 ... old: female FALSE
## [1] "r: 303 c: 36 ... old: white FALSE
## [1] "r: 303 c: 37 ... old: NA FALSE "
## [1] "r: 303 c: 38 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 303 c: 39 ... old: 7.29 TRUE
## [1] " --> 18.5166"
## [1] "r: 303 c: 40 ... old: 16.05 TRUE
## [1] " --> 40.767"
```

```
## [1] "r: 303 c: 41 ... old: 9.125 TRUE
## [1] " --> 23.1775"
## [1] "r: 303 c: 42 ... old: 80.29 TRUE
## [1] " --> 203.9366"
## [1] "r: 303 c: 43 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 303 c: 44 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 303 c: 45 ... old: 34.175 TRUE
## [1] " --> 86.8045"
## [1] "r: 303 c: 46 ... old: 50.8125 TRUE
## [1] " --> 129.06375"
## [1] "r: 304 c: 1 ... old: 58056c4dc037cb0dbba1ad30215034da FALSE
## [1] "r: 304 c: 2 ... old: d4ec69b42a38a9e3bb885e045e50861a FALSE
## [1] "r: 304 c: 3 ... old: left FALSE
## [1] "r: 304 c: 4 ... old: 66.25 TRUE
## [1] " --> 168.275"
## [1] "r: 304 c: 5 ... old: 8.1 TRUE
## [1] " --> 20.574"
## [1] "r: 304 c: 6 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 304 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 304 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 304 c: 9 ... old: 7.66 TRUE
## [1] " --> 19.4564"
## [1] "r: 304 c: 10 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 304 c: 11 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 304 c: 12 ... old: 16.9 TRUE
## [1] " --> 42.926"
## [1] "r: 304 c: 13 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 304 c: 14 ... old: 11.25
                                   TRUE
## [1] " --> 28.575"
## [1] "r: 304 c: 15 ... old: 81.9 TRUE
## [1] " --> 208.026"
## [1] "r: 304 c: 16 ... old: 81.875 TRUE
## [1] " --> 207.9625"
## [1] "r: 304 c: 17 ... old: 67.75 TRUE
## [1] " --> 172.085"
## [1] "r: 304 c: 18 ... old: 9.66 TRUE
## [1] " --> 24.5364"
## [1] "r: 304 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 304 c: 20 ... old: 16.9 TRUE
## [1] " --> 42.926"
## [1] "r: 304 c: 21 ... old: 16.9
## [1] " --> 42.926"
## [1] "r: 304 c: 22 ... old: 40.66
## [1] " --> 103.2764"
## [1] "r: 304 c: 23 ... old: 40.33 TRUE
```

```
## [1] " --> 102.4382"
## [1] "r: 304 c: 24 ... old: 41.75 TRUE
## [1] " --> 106.045"
## [1] "r: 304 c: 25 ... old: 53.25 TRUE
## [1] " --> 135.255"
## [1] "r: 304 c: 26 ... old: 53.1 TRUE
## [1] " --> 134.874"
## [1] "r: 304 c: 27 ... old: in FALSE
## [1] "r: 304 c: 28 ... old: right FALSE
## [1] "r: 304 c: 29 ... old: right FALSE
## [1] "r: 304 c: 30 ... old: hazel FALSE
## [1] "r: 304 c: 31 ... old: right FALSE
## [1] "r: 304 c: 33 ... old: female FALSE
## [1] "r: 304 c: 36 ... old: white FALSE
## [1] "r: 304 c: 37 ... old: NA FALSE
## [1] "r: 304 c: 38 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 304 c: 39 ... old: 7.7675 TRUE
## [1] " --> 19.72945"
## [1] "r: 304 c: 40 ... old: 16.95
## [1] " --> 43.053"
## [1] "r: 304 c: 41 ... old: 11.25
## [1] " --> 28.575"
## [1] "r: 304 c: 42 ... old: 81.8875 TRUE
## [1] " --> 207.99425"
## [1] "r: 304 c: 43 ... old: 9.58 TRUE
## [1] " --> 24.3332"
## [1] "r: 304 c: 44 ... old: 16.9 TRUE
## [1] " --> 42.926"
## [1] "r: 304 c: 45 ... old: 40.495 TRUE
## [1] " --> 102.8573"
## [1] "r: 304 c: 46 ... old: 53.175 TRUE
## [1] " --> 135.0645"
## [1] "r: 305 c: 1 ... old: 28c6a87502875ef92990719df72796de FALSE
## [1] "r: 305 c: 2 ... old: eb85e0caa487a9fd16fac6b15715dcf8 FALSE
## [1] "r: 305 c: 3 ... old: left FALSE
## [1] "r: 305 c: 4 ... old: 74 TRUE
## [1] " --> 187.96"
## [1] "r: 305 c: 5 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 305 c: 6 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 305 c: 7 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 305 c: 8 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 305 c: 9 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 305 c: 10 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 305 c: 11 ... old: 19.75 TRUE
## [1] " --> 50.165"
## [1] "r: 305 c: 12 ... old: 20.5 TRUE
## [1] " --> 52.07"
```

```
## [1] "r: 305 c: 13 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 305 c: 14 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 305 c: 15 ... old: 94.5 TRUE
## [1] " --> 240.03"
## [1] "r: 305 c: 16 ... old: 94.75
## [1] " --> 240.665"
## [1] "r: 305 c: 17 ... old: 75.25 TRUE
## [1] " --> 191.135"
## [1] "r: 305 c: 18 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 305 c: 19 ... old: 10.75 TRUE
## [1] " --> 27.305"
## [1] "r: 305 c: 20 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 305 c: 21 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 305 c: 22 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 305 c: 23 ... old: 41.5 TRUE
## [1] " --> 105.41"
## [1] "r: 305 c: 24 ... old: 43.75 TRUE
## [1] " --> 111.125"
## [1] "r: 305 c: 25 ... old: 57.5 TRUE
## [1] " --> 146.05"
## [1] "r: 305 c: 26 ... old: 57.75 TRUE
## [1] " --> 146.685"
## [1] "r: 305 c: 27 ... old: in FALSE
## [1] "r: 305 c: 28 ... old: right FALSE
## [1] "r: 305 c: 29 ... old: right FALSE
## [1] "r: 305 c: 30 ... old: hazel FALSE
## [1] "r: 305 c: 31 ... old: right FALSE
## [1] "r: 305 c: 33 ... old: male FALSE
## [1] "r: 305 c: 36 ... old: white FALSE
## [1] "r: 305 c: 37 ... old: Flat footed, possible German ancestry FALSE
## [1] "r: 305 c: 38 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 305 c: 39 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 305 c: 40 ... old: 20.125 TRUE
## [1] " --> 51.1175"
## [1] "r: 305 c: 41 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 305 c: 42 ... old: 94.625
## [1] " --> 240.3475"
## [1] "r: 305 c: 43 ... old: 10.875 TRUE
## [1] " --> 27.6225"
## [1] "r: 305 c: 44 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 305 c: 45 ... old: 41.25 TRUE
## [1] " --> 104.775"
## [1] "r: 305 c: 46 ... old: 57.625 TRUE
## [1] " --> 146.3675"
```

```
## [1] "r: 306 c: 1 ... old: 58056c4dc037cb0dbba1ad30215034da FALSE
## [1] "r: 306 c: 2 ... old: ee9817b969dbd601e367e777a5de7962 FALSE
## [1] "r: 306 c: 3 ... old: left FALSE
## [1] "r: 306 c: 4 ... old: 65 TRUE
## [1] " --> 165.1"
## [1] "r: 306 c: 5 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 306 c: 6 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 306 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 306 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 306 c: 9 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 306 c: 10 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 306 c: 11 ... old: 15.75 TRUE
## [1] " --> 40.005"
## [1] "r: 306 c: 12 ... old: 15.75 TRUE
## [1] " --> 40.005"
## [1] "r: 306 c: 13 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 306 c: 14 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 306 c: 15 ... old: 83 TRUE
## [1] " --> 210.82"
## [1] "r: 306 c: 16 ... old: 82 TRUE
## [1] " --> 208.28"
## [1] "r: 306 c: 17 ... old: 65.5 TRUE
## [1] " --> 166.37"
## [1] "r: 306 c: 18 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 306 c: 19 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 306 c: 20 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 306 c: 21 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 306 c: 22 ... old: 37.66 TRUE
## [1] " --> 95.6564"
## [1] "r: 306 c: 23 ... old: 38 TRUE
## [1] " --> 96.52"
## [1] "r: 306 c: 24 ... old: 39.75 TRUE
## [1] " --> 100.965"
## [1] "r: 306 c: 25 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 306 c: 26 ... old: 51 TRUE
## [1] " --> 129.54"
## [1] "r: 306 c: 27 ... old: in FALSE
## [1] "r: 306 c: 28 ... old: right FALSE
## [1] "r: 306 c: 29 ... old: right FALSE
## [1] "r: 306 c: 30 ... old: blue FALSE
## [1] "r: 306 c: 31 ... old: right FALSE
```

```
## [1] "r: 306 c: 33 ... old: female FALSE
## [1] "r: 306 c: 36 ... old: white FALSE
## [1] "r: 306 c: 37 ... old: NA FALSE "
## [1] "r: 306 c: 38 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 306 c: 39 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 306 c: 40 ... old: 15.75 TRUE
## [1] " --> 40.005"
## [1] "r: 306 c: 41 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 306 c: 42 ... old: 82.5 TRUE
## [1] " --> 209.55"
## [1] "r: 306 c: 43 ... old: 8.875 TRUE
## [1] " --> 22.5425"
## [1] "r: 306 c: 44 ... old: 16.875 TRUE
## [1] " --> 42.8625"
## [1] "r: 306 c: 45 ... old: 37.83 TRUE
## [1] " --> 96.0882"
## [1] "r: 306 c: 46 ... old: 51.5 TRUE
## [1] " --> 130.81"
## [1] "r: 317 c: 1 ... old: b7c953cb6c1f80156d72b012e64c2f5b FALSE
## [1] "r: 317 c: 2 ... old: 830b198e4dbea57bc18d39e4174bd4a4 FALSE
## [1] "r: 317 c: 3 ... old: left FALSE
## [1] "r: 317 c: 4 ... old: 68.5 TRUE
## [1] " --> 173.99"
## [1] "r: 317 c: 5 ... old: 9.875 TRUE
## [1] " --> 25.0825"
## [1] "r: 317 c: 6 ... old: 23.75 TRUE
## [1] " --> 60.325"
## [1] "r: 317 c: 7 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 317 c: 8 ... old: 7.375 TRUE
## [1] " --> 18.7325"
## [1] "r: 317 c: 9 ... old: 8.625
## [1] " --> 21.9075"
## [1] "r: 317 c: 10 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 317 c: 11 ... old: 18.125 TRUE
## [1] " --> 46.0375"
## [1] "r: 317 c: 12 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 317 c: 13 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 317 c: 14 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 317 c: 15 ... old: 88.5 TRUE
## [1] " --> 224.79"
## [1] "r: 317 c: 16 ... old: 89 TRUE
## [1] " --> 226.06"
## [1] "r: 317 c: 17 ... old: 71.5 TRUE
## [1] " --> 181.61"
## [1] "r: 317 c: 18 ... old: 10 TRUE
## [1] " --> 25.4"
```

```
## [1] "r: 317 c: 19 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 317 c: 20 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 317 c: 21 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 317 c: 22 ... old: 35.75
## [1] " --> 90.805"
## [1] "r: 317 c: 23 ... old: 34.75 TRUE
## [1] " --> 88.265"
## [1] "r: 317 c: 24 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 317 c: 25 ... old: 59.75 TRUE
## [1] " --> 151.765"
## [1] "r: 317 c: 26 ... old: 59 TRUE
## [1] " --> 149.86"
## [1] "r: 317 c: 27 ... old: inches FALSE
## [1] "r: 317 c: 28 ... old: right FALSE
## [1] "r: 317 c: 29 ... old: right FALSE
## [1] "r: 317 c: 30 ... old: brown FALSE
## [1] "r: 317 c: 31 ... old: right FALSE
## [1] "r: 317 c: 33 ... old: male FALSE
## [1] "r: 317 c: 36 ... old: white FALSE
## [1] "r: 317 c: 37 ... old: NA FALSE
## [1] "r: 317 c: 38 ... old: 7.4375 TRUE
## [1] " --> 18.89125"
## [1] "r: 317 c: 39 ... old: 8.5625 TRUE
## [1] " --> 21.74875"
## [1] "r: 317 c: 40 ... old: 18.0625 TRUE
## [1] " --> 45.87875"
## [1] "r: 317 c: 41 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 317 c: 42 ... old: 88.75 TRUE
## [1] " --> 225.425"
## [1] "r: 317 c: 43 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 317 c: 44 ... old: 16.625 TRUE
## [1] " --> 42.2275"
## [1] "r: 317 c: 45 ... old: 35.25 TRUE
## [1] " --> 89.535"
## [1] "r: 317 c: 46 ... old: 59.375 TRUE
## [1] " --> 150.8125"
## [1] "r: 318 c: 1 ... old: b7c953cb6c1f80156d72b012e64c2f5b FALSE
## [1] "r: 318 c: 2 ... old: 839d0778a7469b85de24947ff78d9c15 FALSE
## [1] "r: 318 c: 3 ... old: left FALSE
## [1] "r: 318 c: 4 ... old: 67 TRUE
## [1] " --> 170.18"
## [1] "r: 318 c: 5 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 318 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 318 c: 7 ... old: 6.5
## [1] " --> 16.51"
## [1] "r: 318 c: 8 ... old: 6.5 TRUE
```

```
## [1] " --> 16.51"
## [1] "r: 318 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 318 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 318 c: 11 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 318 c: 12 ... old: 15.5 TRUE
## [1] " --> 39.37"
## [1] "r: 318 c: 13 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 318 c: 14 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 318 c: 15 ... old: 86 TRUE
## [1] " --> 218.44"
## [1] "r: 318 c: 16 ... old: 86 TRUE
## [1] " --> 218.44"
## [1] "r: 318 c: 17 ... old: 68 TRUE
## [1] " --> 172.72"
## [1] "r: 318 c: 18 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 318 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 318 c: 20 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 318 c: 21 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 318 c: 22 ... old: 38 TRUE
## [1] " --> 96.52"
## [1] "r: 318 c: 23 ... old: 38
                                 TRUE
## [1] " --> 96.52"
## [1] "r: 318 c: 24 ... old: 40 TRUE
## [1] " --> 101.6"
## [1] "r: 318 c: 25 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 318 c: 26 ... old: 51 TRUE
## [1] " --> 129.54"
## [1] "r: 318 c: 27 ... old: inches FALSE
## [1] "r: 318 c: 28 ... old: left FALSE
## [1] "r: 318 c: 29 ... old: left FALSE
## [1] "r: 318 c: 30 ... old: brown FALSE
## [1] "r: 318 c: 31 ... old: left FALSE
## [1] "r: 318 c: 33 ... old: female FALSE
## [1] "r: 318 c: 36 ... old: white FALSE
## [1] "r: 318 c: 37 ... old: NA FALSE
## [1] "r: 318 c: 38 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 318 c: 39 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 318 c: 40 ... old: 15.75 TRUE
## [1] " --> 40.005"
## [1] "r: 318 c: 41 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 318 c: 42 ... old: 86 TRUE
```

```
## [1] " --> 218.44"
## [1] "r: 318 c: 43 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 318 c: 44 ... old: 16.875 TRUE
## [1] " --> 42.8625"
## [1] "r: 318 c: 45 ... old: 38 TRUE
## [1] " --> 96.52"
## [1] "r: 318 c: 46 ... old: 51.5 TRUE
## [1] " --> 130.81"
## [1] "r: 319 c: 1 ... old: b7c953cb6c1f80156d72b012e64c2f5b FALSE
## [1] "r: 319 c: 2 ... old: d001d856ebdf0decd03d46283237d5d4 FALSE
## [1] "r: 319 c: 3 ... old: left FALSE
## [1] "r: 319 c: 4 ... old: 70 TRUE
## [1] " --> 177.8"
## [1] "r: 319 c: 5 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 319 c: 6 ... old: 22.5 TRUE
## [1] " --> 57.15"
## [1] "r: 319 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 319 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 319 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 319 c: 10 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 319 c: 11 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 319 c: 12 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 319 c: 13 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 319 c: 14 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 319 c: 15 ... old: 89
## [1] " --> 226.06"
## [1] "r: 319 c: 16 ... old: 89
## [1] " --> 226.06"
## [1] "r: 319 c: 17 ... old: 72 TRUE
## [1] " --> 182.88"
## [1] "r: 319 c: 18 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 319 c: 19 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 319 c: 20 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 319 c: 21 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 319 c: 22 ... old: 41.5 TRUE
## [1] " --> 105.41"
## [1] "r: 319 c: 23 ... old: 41.5 TRUE
## [1] " --> 105.41"
## [1] "r: 319 c: 24 ... old: 42.5 TRUE
## [1] " --> 107.95"
```

```
## [1] "r: 319 c: 25 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 319 c: 26 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 319 c: 27 ... old: inches FALSE
## [1] "r: 319 c: 28 ... old: right FALSE
## [1] "r: 319 c: 29 ... old: right FALSE
## [1] "r: 319 c: 30 ... old: blue FALSE
## [1] "r: 319 c: 31 ... old: right FALSE
## [1] "r: 319 c: 33 ... old: male FALSE
## [1] "r: 319 c: 36 ... old: white FALSE
## [1] "r: 319 c: 37 ... old: NA FALSE "
## [1] "r: 319 c: 38 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 319 c: 39 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 319 c: 40 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 319 c: 41 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 319 c: 42 ... old: 89 TRUE
## [1] " --> 226.06"
## [1] "r: 319 c: 43 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 319 c: 44 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 319 c: 45 ... old: 41.5 TRUE
## [1] " --> 105.41"
## [1] "r: 319 c: 46 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 320 c: 1 ... old: b7c953cb6c1f80156d72b012e64c2f5b FALSE
## [1] "r: 320 c: 2 ... old: ce9d8ffcc3b2509bdf8bee1e4787b014 FALSE
## [1] "r: 320 c: 3 ... old: left FALSE
## [1] "r: 320 c: 4 ... old: 60 TRUE
## [1] " --> 152.4"
## [1] "r: 320 c: 5 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 320 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 320 c: 7 ... old: 6.25 TRUE
## [1] " --> 15.875"
## [1] "r: 320 c: 8 ... old: 6.25 TRUE
## [1] " --> 15.875"
## [1] "r: 320 c: 9 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 320 c: 10 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 320 c: 11 ... old: 14.75 TRUE
## [1] " --> 37.465"
## [1] "r: 320 c: 12 ... old: 14.75 TRUE
## [1] " --> 37.465"
## [1] "r: 320 c: 13 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 320 c: 14 ... old: 8 TRUE
```

```
## [1] " --> 20.32"
## [1] "r: 320 c: 15 ... old: 77.34 TRUE
## [1] " --> 196.4436"
## [1] "r: 320 c: 16 ... old: 78 TRUE
## [1] " --> 198.12"
## [1] "r: 320 c: 17 ... old: 60 TRUE
## [1] " --> 152.4"
## [1] "r: 320 c: 18 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 320 c: 19 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 320 c: 20 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 320 c: 21 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 320 c: 22 ... old: 34.5 TRUE
## [1] " --> 87.63"
## [1] "r: 320 c: 23 ... old: 34.5 TRUE
## [1] " --> 87.63"
## [1] "r: 320 c: 24 ... old: 34.25 TRUE
## [1] " --> 86.995"
## [1] "r: 320 c: 25 ... old: 46
## [1] " --> 116.84"
## [1] "r: 320 c: 26 ... old: 46 TRUE
## [1] " --> 116.84"
## [1] "r: 320 c: 27 ... old: inches FALSE
## [1] "r: 320 c: 28 ... old: right FALSE
## [1] "r: 320 c: 29 ... old: right FALSE
## [1] "r: 320 c: 30 ... old: blue FALSE
## [1] "r: 320 c: 31 ... old: right FALSE
## [1] "r: 320 c: 33 ... old: female FALSE
## [1] "r: 320 c: 36 ... old: white FALSE
## [1] "r: 320 c: 37 ... old: NA FALSE "
## [1] "r: 320 c: 38 ... old: 6.25 TRUE
## [1] " --> 15.875"
## [1] "r: 320 c: 39 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 320 c: 40 ... old: 14.75 TRUE
## [1] " --> 37.465"
## [1] "r: 320 c: 41 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 320 c: 42 ... old: 77.67 TRUE
## [1] " --> 197.2818"
## [1] "r: 320 c: 43 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 320 c: 44 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 320 c: 45 ... old: 34.5 TRUE
## [1] " --> 87.63"
## [1] "r: 320 c: 46 ... old: 46 TRUE
## [1] " --> 116.84"
## [1] "r: 321 c: 1 ... old: b7c953cb6c1f80156d72b012e64c2f5b FALSE
## [1] "r: 321 c: 2 ... old: ec53b315cf47f7f0a66e0df9d77fe1b7 FALSE
## [1] "r: 321 c: 3 ... old: left FALSE "
```

```
## [1] "r: 321 c: 4 ... old: 70 TRUE
## [1] " --> 177.8"
## [1] "r: 321 c: 5 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 321 c: 6 ... old: 22.25 TRUE
## [1] " --> 56.515"
## [1] "r: 321 c: 7 ... old: 87.875
## [1] " --> 223.2025"
## [1] "r: 321 c: 8 ... old: 87.875 TRUE
## [1] " --> 223.2025"
## [1] "r: 321 c: 9 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 321 c: 10 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 321 c: 11 ... old: 18.25
                                    TRUE
## [1] " --> 46.355"
## [1] "r: 321 c: 12 ... old: 17.75 TRUE
## [1] " --> 45.085"
## [1] "r: 321 c: 13 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 321 c: 14 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 321 c: 15 ... old: 86.5 TRUE
## [1] " --> 219.71"
## [1] "r: 321 c: 16 ... old: 87.5 TRUE
## [1] " --> 222.25"
## [1] "r: 321 c: 17 ... old: 72 TRUE
## [1] " --> 182.88"
## [1] "r: 321 c: 18 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 321 c: 19 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 321 c: 20 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 321 c: 21 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 321 c: 22 ... old: 40.75 TRUE
## [1] " --> 103.505"
## [1] "r: 321 c: 23 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 321 c: 24 ... old: 42.25 TRUE
## [1] " --> 107.315"
## [1] "r: 321 c: 25 ... old: 56 TRUE
## [1] " --> 142.24"
## [1] "r: 321 c: 26 ... old: 55.5 TRUE
## [1] " --> 140.97"
## [1] "r: 321 c: 27 ... old: inches FALSE
## [1] "r: 321 c: 28 ... old: right FALSE
## [1] "r: 321 c: 29 ... old: right FALSE
## [1] "r: 321 c: 30 ... old: hazel FALSE
## [1] "r: 321 c: 31 ... old: right FALSE
## [1] "r: 321 c: 33 ... old: male FALSE
## [1] "r: 321 c: 36 ... old: white FALSE
## [1] "r: 321 c: 37 ... old: missing pinky on left hand FALSE
```

```
## [1] "r: 321 c: 38 ... old: 87.875 TRUE
## [1] " --> 223.2025"
## [1] "r: 321 c: 39 ... old: 7.125 TRUE
## [1] " --> 18.0975"
## [1] "r: 321 c: 40 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 321 c: 41 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 321 c: 42 ... old: 87 TRUE
## [1] " --> 220.98"
## [1] "r: 321 c: 43 ... old: 9.875 TRUE
## [1] " --> 25.0825"
## [1] "r: 321 c: 44 ... old: 16.625
## [1] " --> 42.2275"
## [1] "r: 321 c: 45 ... old: 40.875 TRUE
## [1] " --> 103.8225"
## [1] "r: 321 c: 46 ... old: 55.75 TRUE
## [1] " --> 141.605"
## [1] "r: 322 c: 1 ... old: b7c953cb6c1f80156d72b012e64c2f5b FALSE
## [1] "r: 322 c: 2 ... old: dfe7ac4bf28ba478a59850d3ca63ceb3 FALSE
## [1] "r: 322 c: 3 ... old: left FALSE
## [1] "r: 322 c: 4 ... old: 63.75 TRUE
## [1] " --> 161.925"
## [1] "r: 322 c: 5 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 322 c: 6 ... old: 21.75 TRUE
## [1] " --> 55.245"
## [1] "r: 322 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 322 c: 8 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 322 c: 9 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 322 c: 10 ... old: 6.25 TRUE
## [1] " --> 15.875"
## [1] "r: 322 c: 11 ... old: 15.25 TRUE
## [1] " --> 38.735"
## [1] "r: 322 c: 12 ... old: 15.25 TRUE
## [1] " --> 38.735"
## [1] "r: 322 c: 13 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 322 c: 14 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 322 c: 15 ... old: 76.5 TRUE
## [1] " --> 194.31"
## [1] "r: 322 c: 16 ... old: 77 TRUE
## [1] " --> 195.58"
## [1] "r: 322 c: 17 ... old: 62.25 TRUE
## [1] " --> 158.115"
## [1] "r: 322 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 322 c: 19 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 322 c: 20 ... old: 17 TRUE
```

```
## [1] " --> 43.18"
## [1] "r: 322 c: 21 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 322 c: 22 ... old: 31.5 TRUE
## [1] " --> 80.01"
## [1] "r: 322 c: 23 ... old: 31.25 TRUE
## [1] " --> 79.375"
## [1] "r: 322 c: 24 ... old: 33.5 TRUE
## [1] " --> 85.09"
## [1] "r: 322 c: 25 ... old: 45 TRUE
## [1] " --> 114.3"
## [1] "r: 322 c: 26 ... old: 46 TRUE
## [1] " --> 116.84"
## [1] "r: 322 c: 27 ... old: inches FALSE
## [1] "r: 322 c: 28 ... old: right FALSE
## [1] "r: 322 c: 29 ... old: right FALSE
## [1] "r: 322 c: 30 ... old: blue FALSE
## [1] "r: 322 c: 31 ... old: right FALSE
## [1] "r: 322 c: 33 ... old: female FALSE
## [1] "r: 322 c: 36 ... old: white FALSE
## [1] "r: 322 c: 37 ... old: NA FALSE
## [1] "r: 322 c: 38 ... old: 6.875
## [1] " --> 17.4625"
## [1] "r: 322 c: 39 ... old: 6.375
## [1] " --> 16.1925"
## [1] "r: 322 c: 40 ... old: 15.25
## [1] " --> 38.735"
## [1] "r: 322 c: 41 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 322 c: 42 ... old: 76.75
## [1] " --> 194.945"
## [1] "r: 322 c: 43 ... old: 9.375 TRUE
## [1] " --> 23.8125"
## [1] "r: 322 c: 44 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 322 c: 45 ... old: 31.375 TRUE
## [1] " --> 79.6925"
## [1] "r: 322 c: 46 ... old: 45.5 TRUE
## [1] " --> 115.57"
## [1] "r: 323 c: 1 ... old: b7c953cb6c1f80156d72b012e64c2f5b FALSE
## [1] "r: 323 c: 2 ... old: fe37167d943dc7ea355615ecf8c775f9 FALSE
## [1] "r: 323 c: 3 ... old: left FALSE
## [1] "r: 323 c: 4 ... old: 64 TRUE
## [1] " --> 162.56"
## [1] "r: 323 c: 5 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 323 c: 6 ... old: 22.5 TRUE
## [1] " --> 57.15"
## [1] "r: 323 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 323 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 323 c: 9 ... old: 7 TRUE
## [1] " --> 17.78"
```

```
## [1] "r: 323 c: 10 ... old: 7.25
## [1] " --> 18.415"
## [1] "r: 323 c: 11 ... old: 15.5 TRUE
## [1] " --> 39.37"
## [1] "r: 323 c: 12 ... old: 16.25 TRUE
## [1] " --> 41.275"
## [1] "r: 323 c: 13 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 323 c: 14 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 323 c: 15 ... old: 76 TRUE
## [1] " --> 193.04"
## [1] "r: 323 c: 16 ... old: 74 TRUE
## [1] " --> 187.96"
## [1] "r: 323 c: 17 ... old: 63.5 TRUE
## [1] " --> 161.29"
## [1] "r: 323 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 323 c: 19 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 323 c: 20 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 323 c: 21 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 323 c: 22 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 323 c: 23 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 323 c: 24 ... old: 37.5 TRUE
## [1] " --> 95.25"
## [1] "r: 323 c: 25 ... old: 49 TRUE
## [1] " --> 124.46"
## [1] "r: 323 c: 26 ... old: 49 TRUE
## [1] " --> 124.46"
## [1] "r: 323 c: 27 ... old: inches FALSE
## [1] "r: 323 c: 28 ... old: right FALSE
## [1] "r: 323 c: 29 ... old: right FALSE
## [1] "r: 323 c: 30 ... old: blue FALSE
## [1] "r: 323 c: 31 ... old: right FALSE
## [1] "r: 323 c: 33 ... old: female FALSE
## [1] "r: 323 c: 36 ... old: white FALSE
## [1] "r: 323 c: 37 ... old: NA FALSE
## [1] "r: 323 c: 38 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 323 c: 39 ... old: 7.125
## [1] " --> 18.0975"
## [1] "r: 323 c: 40 ... old: 15.875 TRUE
## [1] " --> 40.3225"
## [1] "r: 323 c: 41 ... old: 8.125 TRUE
## [1] " --> 20.6375"
## [1] "r: 323 c: 42 ... old: 75 TRUE
## [1] " --> 190.5"
## [1] "r: 323 c: 43 ... old: 9.625 TRUE
## [1] " --> 24.4475"
```

```
## [1] "r: 323 c: 44 ... old: 16.25 TRUE
## [1] " --> 41.275"
## [1] "r: 323 c: 45 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 323 c: 46 ... old: 49 TRUE
## [1] " --> 124.46"
## [1] "r: 324 c: 1 ... old: b7c953cb6c1f80156d72b012e64c2f5b FALSE
## [1] "r: 324 c: 2 ... old: a815dbe596b632b4fd406210c97257d5 FALSE
## [1] "r: 324 c: 3 ... old: left FALSE
## [1] "r: 324 c: 4 ... old: 71 TRUE
## [1] " --> 180.34"
## [1] "r: 324 c: 5 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 324 c: 6 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 324 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 324 c: 8 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 324 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 324 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 324 c: 11 ... old: 16.25 TRUE
## [1] " --> 41.275"
## [1] "r: 324 c: 12 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 324 c: 13 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 324 c: 14 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 324 c: 15 ... old: 79 TRUE
## [1] " --> 200.66"
## [1] "r: 324 c: 16 ... old: 84 TRUE
## [1] " --> 213.36"
## [1] "r: 324 c: 17 ... old: 72 TRUE
## [1] " --> 182.88"
## [1] "r: 324 c: 18 ... old: 10.25 TRUE
## [1] " --> 26.035"
## [1] "r: 324 c: 19 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 324 c: 20 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 324 c: 21 ... old: 18.5 TRUE
## [1] " --> 46.99"
## [1] "r: 324 c: 22 ... old: 42.5 TRUE
## [1] " --> 107.95"
## [1] "r: 324 c: 23 ... old: 38 TRUE
## [1] " --> 96.52"
## [1] "r: 324 c: 24 ... old: 43
## [1] " --> 109.22"
## [1] "r: 324 c: 25 ... old: 54
## [1] " --> 137.16"
## [1] "r: 324 c: 26 ... old: 54 TRUE
```

```
## [1] " --> 137.16"
## [1] "r: 324 c: 27 ... old: inches FALSE
## [1] "r: 324 c: 28 ... old: right FALSE
## [1] "r: 324 c: 29 ... old: right FALSE
## [1] "r: 324 c: 30 ... old: brown FALSE
## [1] "r: 324 c: 31 ... old: right FALSE
## [1] "r: 324 c: 33 ... old: male FALSE
## [1] "r: 324 c: 36 ... old: white FALSE
## [1] "r: 324 c: 37 ... old: Can't move left hand or arm, was able to measure FALSE
## [1] "r: 324 c: 38 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 324 c: 39 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 324 c: 40 ... old: 16.375 TRUE
## [1] " --> 41.5925"
## [1] "r: 324 c: 41 ... old: 10.75 TRUE
## [1] " --> 27.305"
## [1] "r: 324 c: 42 ... old: 81.5 TRUE
## [1] " --> 207.01"
## [1] "r: 324 c: 43 ... old: 10.125 TRUE
## [1] " --> 25.7175"
## [1] "r: 324 c: 44 ... old: 18.25
## [1] " --> 46.355"
## [1] "r: 324 c: 45 ... old: 40.25 TRUE
## [1] " --> 102.235"
## [1] "r: 324 c: 46 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 325 c: 1 ... old: b7c953cb6c1f80156d72b012e64c2f5b FALSE
## [1] "r: 325 c: 2 ... old: 2c7416c8b08edd974800bbf4bcbcd6ba FALSE
## [1] "r: 325 c: 3 ... old: left FALSE
## [1] "r: 325 c: 4 ... old: 63.25 TRUE
## [1] " --> 160.655"
## [1] "r: 325 c: 5 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 325 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 325 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 325 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 325 c: 9 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 325 c: 10 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 325 c: 11 ... old: 16.25
## [1] " --> 41.275"
## [1] "r: 325 c: 12 ... old: 16.25 TRUE
## [1] " --> 41.275"
## [1] "r: 325 c: 13 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 325 c: 14 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 325 c: 15 ... old: 80 TRUE
## [1] " --> 203.2"
```

```
## [1] "r: 325 c: 16 ... old: 81 TRUE
## [1] " --> 205.74"
## [1] "r: 325 c: 17 ... old: 60
## [1] " --> 152.4"
## [1] "r: 325 c: 18 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 325 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 325 c: 20 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 325 c: 21 ... old: 19
                                 TRUE
## [1] " --> 48.26"
## [1] "r: 325 c: 22 ... old: 38
                                 TRUE
## [1] " --> 96.52"
## [1] "r: 325 c: 23 ... old: 38 TRUE
## [1] " --> 96.52"
## [1] "r: 325 c: 24 ... old: 38.5 TRUE
## [1] " --> 97.79"
## [1] "r: 325 c: 25 ... old: 46 TRUE
## [1] " --> 116.84"
## [1] "r: 325 c: 26 ... old: 46 TRUE
## [1] " --> 116.84"
## [1] "r: 325 c: 27 ... old: inches FALSE
## [1] "r: 325 c: 28 ... old: right FALSE
## [1] "r: 325 c: 29 ... old: right FALSE
## [1] "r: 325 c: 30 ... old: blue FALSE
## [1] "r: 325 c: 31 ... old: right FALSE
## [1] "r: 325 c: 33 ... old: male FALSE
## [1] "r: 325 c: 36 ... old: white FALSE
## [1] "r: 325 c: 37 ... old: NA FALSE
## [1] "r: 325 c: 38 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 325 c: 39 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 325 c: 40 ... old: 16.25 TRUE
## [1] " --> 41.275"
## [1] "r: 325 c: 41 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 325 c: 42 ... old: 80.5 TRUE
## [1] " --> 204.47"
## [1] "r: 325 c: 43 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 325 c: 44 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 325 c: 45 ... old: 38
## [1] " --> 96.52"
## [1] "r: 325 c: 46 ... old: 46 TRUE
## [1] " --> 116.84"
## [1] "r: 326 c: 1 ... old: 58056c4dc037cb0dbba1ad30215034da FALSE
## [1] "r: 326 c: 2 ... old: 7a7ad17163012c8f04322273aebfe886 FALSE
## [1] "r: 326 c: 3 ... old: left FALSE
## [1] "r: 326 c: 4 ... old: 72.5 TRUE
## [1] " --> 184.15"
## [1] "r: 326 c: 5 ... old: 8.25 TRUE
```

```
## [1] " --> 20.955"
## [1] "r: 326 c: 6 ... old: 22.75 TRUE
## [1] " --> 57.785"
## [1] "r: 326 c: 7 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 326 c: 8 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 326 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 326 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 326 c: 11 ... old: 19.25 TRUE
## [1] " --> 48.895"
## [1] "r: 326 c: 12 ... old: 19.5 TRUE
## [1] " --> 49.53"
## [1] "r: 326 c: 13 ... old: 13.5
## [1] " --> 34.29"
## [1] "r: 326 c: 14 ... old: 13.5
## [1] " --> 34.29"
## [1] "r: 326 c: 15 ... old: 93.5
## [1] " --> 237.49"
## [1] "r: 326 c: 16 ... old: 93.25
## [1] " --> 236.855"
## [1] "r: 326 c: 17 ... old: 73.5 TRUE
## [1] " --> 186.69"
## [1] "r: 326 c: 18 ... old: 11.25 TRUE
## [1] " --> 28.575"
## [1] "r: 326 c: 19 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 326 c: 20 ... old: 19
                                TRUE
## [1] " --> 48.26"
## [1] "r: 326 c: 21 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 326 c: 22 ... old: 41.5 TRUE
## [1] " --> 105.41"
## [1] "r: 326 c: 23 ... old: 41 TRUE
## [1] " --> 104.14"
## [1] "r: 326 c: 24 ... old: 42.5 TRUE
## [1] " --> 107.95"
## [1] "r: 326 c: 25 ... old: 59.25 TRUE
## [1] " --> 150.495"
## [1] "r: 326 c: 26 ... old: 59 TRUE
## [1] " --> 149.86"
## [1] "r: 326 c: 27 ... old: inches FALSE
## [1] "r: 326 c: 28 ... old: right FALSE
## [1] "r: 326 c: 29 ... old: right FALSE
## [1] "r: 326 c: 30 ... old: hazel FALSE
## [1] "r: 326 c: 31 ... old: right FALSE
## [1] "r: 326 c: 33 ... old: male FALSE
## [1] "r: 326 c: 36 ... old: white FALSE
## [1] "r: 326 c: 37 ... old: NA FALSE
## [1] "r: 326 c: 38 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 326 c: 39 ... old: 8 TRUE
```

```
## [1] " --> 20.32"
## [1] "r: 326 c: 40 ... old: 19.375 TRUE
## [1] " --> 49.2125"
## [1] "r: 326 c: 41 ... old: 13.5 TRUE
## [1] " --> 34.29"
## [1] "r: 326 c: 42 ... old: 93.375 TRUE
## [1] " --> 237.1725"
## [1] "r: 326 c: 43 ... old: 11.125 TRUE
## [1] " --> 28.2575"
## [1] "r: 326 c: 44 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 326 c: 45 ... old: 41.25 TRUE
## [1] " --> 104.775"
## [1] "r: 326 c: 46 ... old: 59.125 TRUE
## [1] " --> 150.1775"
## [1] "r: 336 c: 1 ... old: 7e6e6a69493f1d54a74ecdd4058ebadf FALSE
## [1] "r: 336 c: 2 ... old: 81a9f3915f64dc6edd329b89bea87d5e FALSE
## [1] "r: 336 c: 3 ... old: left FALSE
## [1] "r: 336 c: 4 ... old: 182.88 TRUE
## [1] " --> 464.5152"
## [1] "r: 336 c: 5 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 336 c: 6 ... old: 61 TRUE
## [1] " --> 154.94"
## [1] "r: 336 c: 7 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 336 c: 8 ... old: 19.5 TRUE
## [1] " --> 49.53"
## [1] "r: 336 c: 9 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 336 c: 10 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 336 c: 11 ... old: 47 TRUE
## [1] " --> 119.38"
## [1] "r: 336 c: 12 ... old: 48 TRUE
## [1] " --> 121.92"
## [1] "r: 336 c: 13 ... old: 23.5 TRUE
## [1] " --> 59.69"
## [1] "r: 336 c: 14 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 336 c: 15 ... old: 231.14 TRUE
## [1] " --> 587.0956"
## [1] "r: 336 c: 16 ... old: 224.79 TRUE
## [1] " --> 570.9666"
## [1] "r: 336 c: 17 ... old: 189.23 TRUE
## [1] " --> 480.6442"
## [1] "r: 336 c: 18 ... old: 25 TRUE
## [1] " --> 63.5"
## [1] "r: 336 c: 19 ... old: 26 TRUE
## [1] " --> 66.04"
## [1] "r: 336 c: 20 ... old: 46 TRUE
## [1] " --> 116.84"
## [1] "r: 336 c: 21 ... old: 45.5 TRUE
## [1] " --> 115.57"
```

```
## [1] "r: 336 c: 22 ... old: 90 TRUE
## [1] " --> 228.6"
## [1] "r: 336 c: 23 ... old: 89 TRUE
## [1] " --> 226.06"
## [1] "r: 336 c: 24 ... old: 170.18 TRUE
## [1] " --> 432.2572"
## [1] "r: 336 c: 25 ... old: 137 TRUE
## [1] " --> 347.98"
## [1] "r: 336 c: 26 ... old: 136.5 TRUE
## [1] " --> 346.71"
## [1] "r: 336 c: 27 ... old: inches FALSE
## [1] "r: 336 c: 28 ... old: right FALSE
## [1] "r: 336 c: 29 ... old: right FALSE
## [1] "r: 336 c: 30 ... old: brown FALSE
## [1] "r: 336 c: 31 ... old: right FALSE
## [1] "r: 336 c: 33 ... old: m FALSE
## [1] "r: 336 c: 36 ... old: korean FALSE
## [1] "r: 336 c: 37 ... old: converted from inches FALSE
## [1] "r: 336 c: 38 ... old: 19.75 TRUE
## [1] " --> 50.165"
## [1] "r: 336 c: 39 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 336 c: 40 ... old: 47.5 TRUE
## [1] " --> 120.65"
## [1] "r: 336 c: 41 ... old: 22.75 TRUE
## [1] " --> 57.785"
## [1] "r: 336 c: 42 ... old: 227.965 TRUE
## [1] " --> 579.0311"
## [1] "r: 336 c: 43 ... old: 25.5 TRUE
## [1] " --> 64.77"
## [1] "r: 336 c: 44 ... old: 45.75 TRUE
## [1] " --> 116.205"
## [1] "r: 336 c: 45 ... old: 89.5 TRUE
## [1] " --> 227.33"
## [1] "r: 336 c: 46 ... old: 136.75 TRUE
## [1] " --> 347.345"
## [1] "r: 347 c: 1 ... old: 54da3e417c8efaddfe60f2634e0655ff FALSE
## [1] "r: 347 c: 2 ... old: \"fd4c92272d5a952adf7aad11c20458e1\" FALSE
## [1] "r: 347 c: 3 ... old: NA FALSE
## [1] "r: 347 c: 4 ... old: 72 TRUE
## [1] " --> 182.88"
## [1] "r: 347 c: 5 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 347 c: 6 ... old: 22.5 TRUE
## [1] " --> 57.15"
## [1] "r: 347 c: 7 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 347 c: 8 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 347 c: 9 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 347 c: 10 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 347 c: 11 ... old: 19.25 TRUE
```

```
## [1] " --> 48.895"
## [1] "r: 347 c: 12 ... old: 19.5 TRUE
## [1] " --> 49.53"
## [1] "r: 347 c: 13 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 347 c: 14 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 347 c: 15 ... old: 92 TRUE
## [1] " --> 233.68"
## [1] "r: 347 c: 16 ... old: 92.75 TRUE
## [1] " --> 235.585"
## [1] "r: 347 c: 17 ... old: 76 TRUE
## [1] " --> 193.04"
## [1] "r: 347 c: 18 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 347 c: 19 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 347 c: 20 ... old: 21.5 TRUE
## [1] " --> 54.61"
## [1] "r: 347 c: 21 ... old: 20.5 TRUE
## [1] " --> 52.07"
## [1] "r: 347 c: 22 ... old: 39
## [1] " --> 99.06"
## [1] "r: 347 c: 23 ... old: 39 TRUE
## [1] " --> 99.06"
## [1] "r: 347 c: 24 ... old: 42.5 TRUE
## [1] " --> 107.95"
## [1] "r: 347 c: 25 ... old: 56.75 TRUE
## [1] " --> 144.145"
## [1] "r: 347 c: 26 ... old: 56.75 TRUE
## [1] " --> 144.145"
## [1] "r: 347 c: 27 ... old: \"in\" FALSE "
## [1] "r: 347 c: 28 ... old: \"right\" FALSE
## [1] "r: 347 c: 29 ... old: \"right\" FALSE
## [1] "r: 347 c: 30 ... old: \"brown\" FALSE
## [1] "r: 347 c: 31 ... old: \"right\" FALSE
## [1] "r: 347 c: 33 ... old: \"male\" FALSE
## [1] "r: 347 c: 36 ... old: \"caucasian\" FALSE
## [1] "r: 347 c: 37 ... old: NA FALSE
## [1] "r: 347 c: 38 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 347 c: 39 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 347 c: 40 ... old: 19.375 TRUE
## [1] " --> 49.2125"
## [1] "r: 347 c: 41 ... old: 8.625 TRUE
## [1] " --> 21.9075"
## [1] "r: 347 c: 42 ... old: 92.375 TRUE
## [1] " --> 234.6325"
## [1] "r: 347 c: 43 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 347 c: 44 ... old: 21
## [1] " --> 53.34"
## [1] "r: 347 c: 45 ... old: 39 TRUE
```

```
## [1] " --> 99.06"
## [1] "r: 347 c: 46 ... old: 56.75 TRUE
## [1] " --> 144.145"
## [1] "r: 348 c: 1 ... old: 3278ce887bc37a4d45550d5e8a6d6828 FALSE
## [1] "r: 348 c: 2 ... old: \"ef1cb6e72d149b184cc241037203f60b\" FALSE
## [1] "r: 348 c: 3 ... old: NA FALSE
## [1] "r: 348 c: 4 ... old: 67 TRUE
## [1] " --> 170.18"
## [1] "r: 348 c: 5 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 348 c: 6 ... old: 23.75 TRUE
## [1] " --> 60.325"
## [1] "r: 348 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 348 c: 8 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 348 c: 9 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 348 c: 10 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 348 c: 11 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 348 c: 12 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 348 c: 13 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 348 c: 14 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 348 c: 15 ... old: 78.28 TRUE
## [1] " --> 198.8312"
## [1] "r: 348 c: 16 ... old: 79 TRUE
## [1] " --> 200.66"
## [1] "r: 348 c: 17 ... old: 62.5 TRUE
## [1] " --> 158.75"
## [1] "r: 348 c: 18 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 348 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 348 c: 20 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 348 c: 21 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 348 c: 22 ... old: 35.5
## [1] " --> 90.17"
## [1] "r: 348 c: 23 ... old: 35.5
## [1] " --> 90.17"
## [1] "r: 348 c: 24 ... old: 37 TRUE
## [1] " --> 93.98"
## [1] "r: 348 c: 25 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 348 c: 26 ... old: 49 TRUE
## [1] " --> 124.46"
## [1] "r: 348 c: 27 ... old: \"in\" FALSE
## [1] "r: 348 c: 28 ... old: \"right\" FALSE
```

```
## [1] "r: 348 c: 29 ... old: \"both\" FALSE
## [1] "r: 348 c: 30 ... old: \"brown\" FALSE
## [1] "r: 348 c: 31 ... old: \"right\" FALSE
## [1] "r: 348 c: 33 ... old: \"male\" FALSE
## [1] "r: 348 c: 36 ... old: \"asian\" FALSE
## [1] "r: 348 c: 37 ... old: NA FALSE
## [1] "r: 348 c: 38 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 348 c: 39 ... old: 7.625 TRUE
## [1] " --> 19.3675"
## [1] "r: 348 c: 40 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 348 c: 41 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 348 c: 42 ... old: 78.64 TRUE
## [1] " --> 199.7456"
## [1] "r: 348 c: 43 ... old: 9.375 TRUE
## [1] " --> 23.8125"
## [1] "r: 348 c: 44 ... old: 16.625 TRUE
## [1] " --> 42.2275"
## [1] "r: 348 c: 45 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 348 c: 46 ... old: 49.5 TRUE
## [1] " --> 125.73"
## [1] "r: 349 c: 1 ... old: 9eb3d5323b1a3c511c3b8c8038727737 FALSE
## [1] "r: 349 c: 2 ... old: \"ee33e909372d935d190f4fcb2a92d542\" FALSE
## [1] "r: 349 c: 3 ... old: NA FALSE
## [1] "r: 349 c: 4 ... old: 10.75 TRUE
## [1] " --> 27.305"
## [1] "r: 349 c: 5 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 349 c: 6 ... old: 22.3 TRUE
## [1] " --> 56.642"
## [1] "r: 349 c: 7 ... old: 7.8 TRUE
## [1] " --> 19.812"
## [1] "r: 349 c: 8 ... old: 7.9 TRUE
## [1] " --> 20.066"
## [1] "r: 349 c: 9 ... old: 7.8 TRUE
## [1] " --> 19.812"
## [1] "r: 349 c: 10 ... old: 7.9 TRUE
## [1] " --> 20.066"
## [1] "r: 349 c: 11 ... old: 18.3 TRUE
## [1] " --> 46.482"
## [1] "r: 349 c: 12 ... old: 17.1 TRUE
## [1] " --> 43.434"
## [1] "r: 349 c: 13 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 349 c: 14 ... old: 12 TRUE
## [1] " --> 30.48"
## [1] "r: 349 c: 15 ... old: 90.3 TRUE
## [1] " --> 229.362"
## [1] "r: 349 c: 16 ... old: 89.3
## [1] " --> 226.822"
## [1] "r: 349 c: 17 ... old: 72.7 TRUE
```

```
## [1] " --> 184.658"
## [1] "r: 349 c: 18 ... old: 10.8 TRUE
## [1] " --> 27.432"
## [1] "r: 349 c: 19 ... old: 10.4 TRUE
## [1] " --> 26.416"
## [1] "r: 349 c: 20 ... old: 18.5 TRUE
## [1] " --> 46.99"
## [1] "r: 349 c: 21 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 349 c: 22 ... old: 41.5 TRUE
## [1] " --> 105.41"
## [1] "r: 349 c: 23 ... old: 41.5 TRUE
## [1] " --> 105.41"
## [1] "r: 349 c: 24 ... old: 42.8 TRUE
## [1] " --> 108.712"
## [1] "r: 349 c: 25 ... old: 58 TRUE
## [1] " --> 147.32"
## [1] "r: 349 c: 26 ... old: 58.8 TRUE
## [1] " --> 149.352"
## [1] "r: 349 c: 27 ... old: \"in\" FALSE
## [1] "r: 349 c: 28 ... old: \"right\" FALSE
## [1] "r: 349 c: 29 ... old: \"both\" FALSE
## [1] "r: 349 c: 30 ... old: \"green\" FALSE
## [1] "r: 349 c: 31 ... old: \"right\" FALSE
## [1] "r: 349 c: 33 ... old: \"female\" FALSE
## [1] "r: 349 c: 36 ... old: \"caucasian\" FALSE
## [1] "r: 349 c: 37 ... old: NA FALSE
## [1] "r: 349 c: 38 ... old: 7.85 TRUE
## [1] " --> 19.939"
## [1] "r: 349 c: 39 ... old: 7.85 TRUE
## [1] " --> 19.939"
## [1] "r: 349 c: 40 ... old: 17.7 TRUE
## [1] " --> 44.958"
## [1] "r: 349 c: 41 ... old: 11.5
                                   TRUE
## [1] " --> 29.21"
## [1] "r: 349 c: 42 ... old: 89.8
## [1] " --> 228.092"
## [1] "r: 349 c: 43 ... old: 10.6 TRUE
## [1] " --> 26.924"
## [1] "r: 349 c: 44 ... old: 18.75 TRUE
## [1] " --> 47.625"
## [1] "r: 349 c: 45 ... old: 41.5 TRUE
## [1] " --> 105.41"
## [1] "r: 349 c: 46 ... old: 58.4 TRUE
## [1] " --> 148.336"
## [1] "r: 350 c: 1 ... old: ae042cc7daa59392f0ae30e0d7efea55 FALSE
## [1] "r: 350 c: 2 ... old: \"d0fa06cd93335c8cae357ffe5cd1c4e9\" FALSE
## [1] "r: 350 c: 3 ... old: NA FALSE
## [1] "r: 350 c: 4 ... old: 68.7 TRUE
## [1] " --> 174.498"
## [1] "r: 350 c: 5 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 350 c: 6 ... old: 21.8 TRUE
## [1] " --> 55.372"
```

```
## [1] "r: 350 c: 7 ... old: 7.3 TRUE
## [1] " --> 18.542"
## [1] "r: 350 c: 8 ... old: 7.4 TRUE
## [1] " --> 18.796"
## [1] "r: 350 c: 9 ... old: 7.9 TRUE
## [1] " --> 20.066"
## [1] "r: 350 c: 10 ... old: 7.8 TRUE
## [1] " --> 19.812"
## [1] "r: 350 c: 11 ... old: 15.8 TRUE
## [1] " --> 40.132"
## [1] "r: 350 c: 12 ... old: 16.5
## [1] " --> 41.91"
## [1] "r: 350 c: 13 ... old: 10.8 TRUE
## [1] " --> 27.432"
## [1] "r: 350 c: 14 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 350 c: 15 ... old: 87 TRUE
## [1] " --> 220.98"
## [1] "r: 350 c: 16 ... old: 85
## [1] " --> 215.9"
## [1] "r: 350 c: 17 ... old: 69 TRUE
## [1] " --> 175.26"
## [1] "r: 350 c: 18 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 350 c: 19 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 350 c: 20 ... old: 16.6 TRUE
## [1] " --> 42.164"
## [1] "r: 350 c: 21 ... old: 18.25 TRUE
## [1] " --> 46.355"
## [1] "r: 350 c: 22 ... old: 42 TRUE
## [1] " --> 106.68"
## [1] "r: 350 c: 23 ... old: 41.1 TRUE
## [1] " --> 104.394"
## [1] "r: 350 c: 24 ... old: 41.5 TRUE
## [1] " --> 105.41"
## [1] "r: 350 c: 25 ... old: 53 TRUE
## [1] " --> 134.62"
## [1] "r: 350 c: 26 ... old: 53.2 TRUE
## [1] " --> 135.128"
## [1] "r: 350 c: 27 ... old: \"in\" FALSE
## [1] "r: 350 c: 28 ... old: \"right\" FALSE
## [1] "r: 350 c: 29 ... old: \"right\" FALSE
## [1] "r: 350 c: 30 ... old: \"brown\" FALSE
## [1] "r: 350 c: 31 ... old: \"right\" FALSE
## [1] "r: 350 c: 33 ... old: \"male\" FALSE
## [1] "r: 350 c: 36 ... old: \"asian/latino\"
## [1] "r: 350 c: 37 ... old: NA FALSE
## [1] "r: 350 c: 38 ... old: 7.35 TRUE
## [1] " --> 18.669"
## [1] "r: 350 c: 39 ... old: 7.85 TRUE
## [1] " --> 19.939"
## [1] "r: 350 c: 40 ... old: 16.15 TRUE
## [1] " --> 41.021"
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## [1] "r: 350 c: 41 ... old: 10.15 TRUE
## [1] " --> 25.781"
## [1] "r: 350 c: 42 ... old: 86 TRUE
## [1] " --> 218.44"
## [1] "r: 350 c: 43 ... old: 10.25 TRUE
## [1] " --> 26.035"
## [1] "r: 350 c: 44 ... old: 17.425 TRUE
## [1] " --> 44.2595"
## [1] "r: 350 c: 45 ... old: 41.55 TRUE
## [1] " --> 105.537"
## [1] "r: 350 c: 46 ... old: 53.1 TRUE
## [1] " --> 134.874"
## [1] "r: 351 c: 1 ... old: 7e7c74a4b3543bfd71fdce2f52df44e2 FALSE
## [1] "r: 351 c: 2 ... old: \"5d44a032652974c3e53644945a95b126\" FALSE
## [1] "r: 351 c: 3 ... old: NA FALSE
## [1] "r: 351 c: 4 ... old: 69.5 TRUE
## [1] " --> 176.53"
## [1] "r: 351 c: 5 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 351 c: 6 ... old: 21.8 TRUE
## [1] " --> 55.372"
## [1] "r: 351 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 351 c: 8 ... old: 7.7 TRUE
## [1] " --> 19.558"
## [1] "r: 351 c: 9 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 351 c: 10 ... old: 8.8 TRUE
## [1] " --> 22.352"
## [1] "r: 351 c: 11 ... old: 17.3 TRUE
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## [1] " --> 48.006"
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## [1] "r: 351 c: 14 ... old: 13.3 TRUE
## [1] " --> 33.782"
## [1] "r: 351 c: 15 ... old: 90.1
                                   TRUE
## [1] " --> 228.854"
## [1] "r: 351 c: 16 ... old: 89.5 TRUE
## [1] " --> 227.33"
## [1] "r: 351 c: 17 ... old: 72.7
                                    TRUF.
## [1] " --> 184.658"
## [1] "r: 351 c: 18 ... old: 10.3
                                   TRUE
## [1] " --> 26.162"
## [1] "r: 351 c: 19 ... old: 10.9
## [1] " --> 27.686"
## [1] "r: 351 c: 20 ... old: 18.3
                                   TRUE
## [1] " --> 46.482"
## [1] "r: 351 c: 21 ... old: 21.1
## [1] " --> 53.594"
## [1] "r: 351 c: 22 ... old: 42.1
## [1] " --> 106.934"
## [1] "r: 351 c: 23 ... old: 42.3 TRUE
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## [1] " --> 107.442"
## [1] "r: 351 c: 24 ... old: 43 TRUE
## [1] " --> 109.22"
## [1] "r: 351 c: 25 ... old: 56.4 TRUE
## [1] " --> 143.256"
## [1] "r: 351 c: 26 ... old: 56 TRUE
## [1] " --> 142.24"
## [1] "r: 351 c: 27 ... old: \"in\" FALSE
## [1] "r: 351 c: 28 ... old: \"right\" FALSE
## [1] "r: 351 c: 29 ... old: \"right\" FALSE
## [1] "r: 351 c: 30 ... old: \"blue\" FALSE
## [1] "r: 351 c: 31 ... old: \"right\" FALSE
## [1] "r: 351 c: 33 ... old: \"female\" FALSE
## [1] "r: 351 c: 36 ... old: \"caucasian\" FALSE
## [1] "r: 351 c: 37 ... old: NA FALSE
## [1] "r: 351 c: 38 ... old: 7.85 TRUE
## [1] " --> 19.939"
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## [1] " --> 22.606"
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## [1] " --> 28.702"
## [1] "r: 351 c: 42 ... old: 89.8
## [1] " --> 228.092"
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## [1] " --> 26.924"
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## [1] " --> 50.038"
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## [1] " --> 107.188"
## [1] "r: 351 c: 46 ... old: 56.2 TRUE
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## [1] "r: 352 c: 3 ... old: NA FALSE
## [1] "r: 352 c: 4 ... old: 64
## [1] " --> 162.56"
## [1] "r: 352 c: 5 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 352 c: 6 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 352 c: 7 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 352 c: 8 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 352 c: 9 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 352 c: 10 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 352 c: 11 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 352 c: 12 ... old: 17.5 TRUE
## [1] " --> 44.45"
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## [1] "r: 352 c: 13 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 352 c: 14 ... old: 10.75 TRUE
## [1] " --> 27.305"
## [1] "r: 352 c: 15 ... old: 79 TRUE
## [1] " --> 200.66"
## [1] "r: 352 c: 16 ... old: 80 TRUE
## [1] " --> 203.2"
## [1] "r: 352 c: 17 ... old: 65.5 TRUE
## [1] " --> 166.37"
## [1] "r: 352 c: 18 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 352 c: 19 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 352 c: 20 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 352 c: 21 ... old: 17.25 TRUE
## [1] " --> 43.815"
## [1] "r: 352 c: 22 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 352 c: 23 ... old: 36.25 TRUE
## [1] " --> 92.075"
## [1] "r: 352 c: 24 ... old: 39 TRUE
## [1] " --> 99.06"
## [1] "r: 352 c: 25 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 352 c: 26 ... old: 50 TRUE
## [1] " --> 127"
## [1] "r: 352 c: 27 ... old: \"in\" FALSE
## [1] "r: 352 c: 28 ... old: \"right\" FALSE
## [1] "r: 352 c: 29 ... old: \"right\" FALSE
## [1] "r: 352 c: 30 ... old: \"brown\" FALSE
## [1] "r: 352 c: 31 ... old: \"right\" FALSE
## [1] "r: 352 c: 33 ... old: \"female\" FALSE
## [1] "r: 352 c: 36 ... old: \"asian/latino\" FALSE
## [1] "r: 352 c: 37 ... old: NA FALSE
## [1] "r: 352 c: 38 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 352 c: 39 ... old: 8.375 TRUE
## [1] " --> 21.2725"
## [1] "r: 352 c: 40 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 352 c: 41 ... old: 10.625 TRUE
## [1] " --> 26.9875"
## [1] "r: 352 c: 42 ... old: 79.5 TRUE
## [1] " --> 201.93"
## [1] "r: 352 c: 43 ... old: 9.125 TRUE
## [1] " --> 23.1775"
## [1] "r: 352 c: 44 ... old: 17.375 TRUE
## [1] " --> 44.1325"
## [1] "r: 352 c: 45 ... old: 36.125 TRUE
## [1] " --> 91.7575"
## [1] "r: 352 c: 46 ... old: 50 TRUE
## [1] " --> 127"
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## [1] "r: 353 c: 3 ... old: NA FALSE
## [1] "r: 353 c: 4 ... old: 69.75 TRUE
## [1] " --> 177.165"
## [1] "r: 353 c: 5 ... old: 8.25
                                 TRUE
## [1] " --> 20.955"
## [1] "r: 353 c: 6 ... old: 21.75 TRUE
## [1] " --> 55.245"
## [1] "r: 353 c: 7 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 353 c: 8 ... old: 7.25
                                  TRUE
## [1] " --> 18.415"
## [1] "r: 353 c: 9 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 353 c: 10 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 353 c: 11 ... old: 17.75 TRUE
## [1] " --> 45.085"
## [1] "r: 353 c: 12 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 353 c: 13 ... old: 14 TRUE
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## [1] "r: 353 c: 14 ... old: 14 TRUE
## [1] " --> 35.56"
## [1] "r: 353 c: 15 ... old: 88.25 TRUE
## [1] " --> 224.155"
## [1] "r: 353 c: 16 ... old: 88.5 TRUE
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## [1] "r: 353 c: 17 ... old: 69.25 TRUE
## [1] " --> 175.895"
## [1] "r: 353 c: 18 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 353 c: 19 ... old: 9.25
                                   TRUE
## [1] " --> 23.495"
## [1] "r: 353 c: 20 ... old: 20.5 TRUE
## [1] " --> 52.07"
## [1] "r: 353 c: 21 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 353 c: 22 ... old: 39.25 TRUE
## [1] " --> 99.695"
## [1] "r: 353 c: 23 ... old: 39.5 TRUE
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## [1] "r: 353 c: 24 ... old: 42 TRUE
## [1] " --> 106.68"
## [1] "r: 353 c: 25 ... old: 56.5 TRUE
## [1] " --> 143.51"
## [1] "r: 353 c: 26 ... old: 56.5 TRUE
## [1] " --> 143.51"
## [1] "r: 353 c: 27 ... old: \"in\" FALSE
## [1] "r: 353 c: 28 ... old: \"right\" FALSE
## [1] "r: 353 c: 29 ... old: \"right\" FALSE
## [1] "r: 353 c: 30 ... old: \"blue\" FALSE
## [1] "r: 353 c: 31 ... old: \"right\" FALSE
```

```
## [1] "r: 353 c: 33 ... old: \"female\" FALSE
## [1] "r: 353 c: 36 ... old: \"caucasian\" FALSE
## [1] "r: 353 c: 37 ... old: NA FALSE "
## [1] "r: 353 c: 38 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 353 c: 39 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 353 c: 40 ... old: 17.625 TRUE
## [1] " --> 44.7675"
## [1] "r: 353 c: 41 ... old: 14 TRUE
## [1] " --> 35.56"
## [1] "r: 353 c: 42 ... old: 88.375 TRUE
## [1] " --> 224.4725"
## [1] "r: 353 c: 43 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 353 c: 44 ... old: 20.25 TRUE
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## [1] "r: 353 c: 45 ... old: 39.375 TRUE
## [1] " --> 100.0125"
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## [1] "r: 354 c: 3 ... old: NA FALSE
## [1] "r: 354 c: 4 ... old: 67 TRUE
## [1] " --> 170.18"
## [1] "r: 354 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 354 c: 6 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 354 c: 7 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 354 c: 8 ... old: 7.25
                                  TRUE
## [1] " --> 18.415"
## [1] "r: 354 c: 9 ... old: 8.25
## [1] " --> 20.955"
## [1] "r: 354 c: 10 ... old: 8.25 TRUE
## [1] " --> 20.955"
## [1] "r: 354 c: 11 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 354 c: 12 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 354 c: 13 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 354 c: 14 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 354 c: 15 ... old: 82 TRUE
## [1] " --> 208.28"
## [1] "r: 354 c: 16 ... old: 82 TRUE
## [1] " --> 208.28"
## [1] "r: 354 c: 17 ... old: 67.5 TRUE
## [1] " --> 171.45"
## [1] "r: 354 c: 18 ... old: 9.75 TRUE
## [1] " --> 24.765"
```

```
## [1] "r: 354 c: 19 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 354 c: 20 ... old: 17.75
## [1] " --> 45.085"
## [1] "r: 354 c: 21 ... old: 17.75
## [1] " --> 45.085"
## [1] "r: 354 c: 22 ... old: 36.25
## [1] " --> 92.075"
## [1] "r: 354 c: 23 ... old: 36.25
## [1] " --> 92.075"
## [1] "r: 354 c: 24 ... old: 39.125 TRUE
## [1] " --> 99.3775"
## [1] "r: 354 c: 25 ... old: 50.25
## [1] " --> 127.635"
## [1] "r: 354 c: 26 ... old: 50.25 TRUE
## [1] " --> 127.635"
## [1] "r: 354 c: 27 ... old: \"in\" FALSE
## [1] "r: 354 c: 28 ... old: \"right\" FALSE
## [1] "r: 354 c: 29 ... old: \"left\" FALSE
## [1] "r: 354 c: 30 ... old: \"blue\" FALSE
## [1] "r: 354 c: 31 ... old: \"right\" FALSE
## [1] "r: 354 c: 33 ... old: \"male\" FALSE
## [1] "r: 354 c: 36 ... old: \"caucasian\" FALSE
## [1] "r: 354 c: 37 ... old: NA FALSE
## [1] "r: 354 c: 38 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 354 c: 39 ... old: 8.25
                                   TRUE
## [1] " --> 20.955"
## [1] "r: 354 c: 40 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 354 c: 41 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 354 c: 42 ... old: 82 TRUE
## [1] " --> 208.28"
## [1] "r: 354 c: 43 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 354 c: 44 ... old: 17.75
## [1] " --> 45.085"
## [1] "r: 354 c: 45 ... old: 36.25
## [1] " --> 92.075"
## [1] "r: 354 c: 46 ... old: 50.25 TRUE
## [1] " --> 127.635"
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## [1] "r: 355 c: 4 ... old: 73.8 TRUE
## [1] " --> 187.452"
## [1] "r: 355 c: 5 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 355 c: 6 ... old: 24 TRUE
## [1] " --> 60.96"
## [1] "r: 355 c: 7 ... old: 8.3 TRUE
## [1] " --> 21.082"
## [1] "r: 355 c: 8 ... old: 8.1 TRUE
```

```
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## [1] "r: 355 c: 10 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 355 c: 11 ... old: 18.1 TRUE
## [1] " --> 45.974"
## [1] "r: 355 c: 12 ... old: 18.1 TRUE
## [1] " --> 45.974"
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## [1] " --> 22.352"
## [1] "r: 355 c: 14 ... old: 12.3 TRUE
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## [1] "r: 355 c: 15 ... old: 93.3 TRUE
## [1] " --> 236.982"
## [1] "r: 355 c: 16 ... old: 92.6
## [1] " --> 235.204"
## [1] "r: 355 c: 17 ... old: 75.4
## [1] " --> 191.516"
## [1] "r: 355 c: 18 ... old: 11.5
## [1] " --> 29.21"
## [1] "r: 355 c: 19 ... old: 11.8
## [1] " --> 29.972"
## [1] "r: 355 c: 20 ... old: 18.7
## [1] " --> 47.498"
## [1] "r: 355 c: 21 ... old: 18.9
                                   TRUE
## [1] " --> 48.006"
## [1] "r: 355 c: 22 ... old: 44.2
                                   TRUE
## [1] " --> 112.268"
## [1] "r: 355 c: 23 ... old: 44.3
                                   TRUE
## [1] " --> 112.522"
## [1] "r: 355 c: 24 ... old: 45.3 TRUE
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## [1] " --> 157.48"
## [1] "r: 355 c: 27 ... old: \"in\" FALSE
## [1] "r: 355 c: 28 ... old: \"right\" FALSE
## [1] "r: 355 c: 29 ... old: \"left\" FALSE
## [1] "r: 355 c: 30 ... old: \"brown\" FALSE
## [1] "r: 355 c: 31 ... old: \"right\" FALSE
## [1] "r: 355 c: 33 ... old: \"male\" FALSE
## [1] "r: 355 c: 36 ... old: \"caucasian\" FALSE
## [1] "r: 355 c: 37 ... old: NA FALSE
## [1] "r: 355 c: 38 ... old: 8.2 TRUE
## [1] " --> 20.828"
## [1] "r: 355 c: 39 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 355 c: 40 ... old: 18.1 TRUE
## [1] " --> 45.974"
## [1] "r: 355 c: 41 ... old: 10.55 TRUE
## [1] " --> 26.797"
## [1] "r: 355 c: 42 ... old: 92.95 TRUE
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```
## [1] " --> 236.093"
## [1] "r: 355 c: 43 ... old: 11.65 TRUE
## [1] " --> 29.591"
## [1] "r: 355 c: 44 ... old: 18.8 TRUE
## [1] " --> 47.752"
## [1] "r: 355 c: 45 ... old: 44.25 TRUE
## [1] " --> 112.395"
## [1] "r: 355 c: 46 ... old: 60.6 TRUE
## [1] " --> 153.924"
## [1] "r: 356 c: 1 ... old: 3a263ca1825c7810dd45e801c9e9f45f FALSE
## [1] "r: 356 c: 2 ... old: \"Â e2075474294983e013ee4dd2201c7a73\" FALSE
## [1] "r: 356 c: 3 ... old: NA FALSE
## [1] "r: 356 c: 4 ... old: 68 TRUE
## [1] " --> 172.72"
## [1] "r: 356 c: 5 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 356 c: 6 ... old: 22.25 TRUE
## [1] " --> 56.515"
## [1] "r: 356 c: 7 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 356 c: 8 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 356 c: 9 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 356 c: 10 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 356 c: 11 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 356 c: 12 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 356 c: 13 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 356 c: 14 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 356 c: 15 ... old: 85 TRUE
## [1] " --> 215.9"
## [1] "r: 356 c: 16 ... old: 85 TRUE
## [1] " --> 215.9"
## [1] "r: 356 c: 17 ... old: 68.125 TRUE
## [1] " --> 173.0375"
## [1] "r: 356 c: 18 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 356 c: 19 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 356 c: 20 ... old: 18.5 TRUE
## [1] " --> 46.99"
## [1] "r: 356 c: 21 ... old: 18.5 TRUE
## [1] " --> 46.99"
## [1] "r: 356 c: 22 ... old: 38.875 TRUE
## [1] " --> 98.7425"
## [1] "r: 356 c: 23 ... old: 38.875 TRUE
## [1] " --> 98.7425"
## [1] "r: 356 c: 24 ... old: 41 TRUE
## [1] " --> 104.14"
```

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## [1] "r: 356 c: 25 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 356 c: 26 ... old: 52 TRUE
## [1] " --> 132.08"
## [1] "r: 356 c: 27 ... old: \"in\" FALSE
## [1] "r: 356 c: 28 ... old: \"right\" FALSE
## [1] "r: 356 c: 29 ... old: \"right\" FALSE
## [1] "r: 356 c: 30 ... old: \"brown\" FALSE
## [1] "r: 356 c: 31 ... old: \"right\" FALSE
## [1] "r: 356 c: 33 ... old: \"female\" FALSE
## [1] "r: 356 c: 36 ... old: \"caucasian\" FALSE
## [1] "r: 356 c: 37 ... old: NA FALSE
## [1] "r: 356 c: 38 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 356 c: 39 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 356 c: 40 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 356 c: 41 ... old: 8.75 TRUE
## [1] " --> 22.225"
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## [1] " --> 215.9"
## [1] "r: 356 c: 43 ... old: 9.125 TRUE
## [1] " --> 23.1775"
## [1] "r: 356 c: 44 ... old: 18.5 TRUE
## [1] " --> 46.99"
## [1] "r: 356 c: 45 ... old: 38.875 TRUE
## [1] " --> 98.7425"
## [1] "r: 356 c: 46 ... old: 52 TRUE
## [1] " --> 132.08"
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## [1] "r: 377 c: 2 ... old: c6b2f100d6271c6090f4275221ed6acd FALSE
## [1] "r: 377 c: 3 ... old: right FALSE
## [1] "r: 377 c: 4 ... old: 63 TRUE
## [1] " --> 160.02"
## [1] "r: 377 c: 5 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 377 c: 6 ... old: 22 TRUE
## [1] " --> 55.88"
## [1] "r: 377 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 377 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 377 c: 9 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 377 c: 10 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 377 c: 11 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 377 c: 12 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 377 c: 13 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 377 c: 14 ... old: 9.25 TRUE
```

```
## [1] " --> 23.495"
## [1] "r: 377 c: 15 ... old: 81 TRUE
## [1] " --> 205.74"
## [1] "r: 377 c: 16 ... old: 81 TRUE
## [1] " --> 205.74"
## [1] "r: 377 c: 17 ... old: 66 TRUE
## [1] " --> 167.64"
## [1] "r: 377 c: 18 ... old: 10.25 TRUE
## [1] " --> 26.035"
## [1] "r: 377 c: 19 ... old: 10.4 TRUE
## [1] " --> 26.416"
## [1] "r: 377 c: 20 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 377 c: 21 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 377 c: 22 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 377 c: 23 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 377 c: 24 ... old: 38.75 TRUE
## [1] " --> 98.425"
## [1] "r: 377 c: 25 ... old: 55.75
## [1] " --> 141.605"
## [1] "r: 377 c: 26 ... old: 55.75 TRUE
## [1] " --> 141.605"
## [1] "r: 377 c: 27 ... old: Inch FALSE
## [1] "r: 377 c: 28 ... old: right FALSE
## [1] "r: 377 c: 29 ... old: right FALSE
## [1] "r: 377 c: 30 ... old: Brown FALSE
## [1] "r: 377 c: 31 ... old: right FALSE
## [1] "r: 377 c: 33 ... old: male FALSE
## [1] "r: 377 c: 36 ... old: African American FALSE
## [1] "r: 377 c: 37 ... old: possible ancestry may include: Ethiopian FALSE
## [1] "r: 377 c: 38 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 377 c: 39 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 377 c: 40 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 377 c: 41 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 377 c: 42 ... old: 81 TRUE
## [1] " --> 205.74"
## [1] "r: 377 c: 43 ... old: 10.325 TRUE
## [1] " --> 26.2255"
## [1] "r: 377 c: 44 ... old: 16.625 TRUE
## [1] " --> 42.2275"
## [1] "r: 377 c: 45 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 377 c: 46 ... old: 55.75 TRUE
## [1] " --> 141.605"
## [1] "r: 378 c: 1 ... old: ecfaf244516c0630fcdef6fbabceabbb FALSE
## [1] "r: 378 c: 2 ... old: 10b30419e35ec26acc14169166056031 FALSE
## [1] "r: 378 c: 3 ... old: right FALSE
```

```
## [1] "r: 378 c: 4 ... old: 58.5 TRUE
## [1] " --> 148.59"
## [1] "r: 378 c: 5 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 378 c: 6 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 378 c: 7 ... old: 6.25 TRUE
## [1] " --> 15.875"
## [1] "r: 378 c: 8 ... old: 6.33 TRUE
## [1] " --> 16.0782"
## [1] "r: 378 c: 9 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 378 c: 10 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 378 c: 11 ... old: 15.25
## [1] " --> 38.735"
## [1] "r: 378 c: 12 ... old: 15.25 TRUE
## [1] " --> 38.735"
## [1] "r: 378 c: 13 ... old: 9.33 TRUE
## [1] " --> 23.6982"
## [1] "r: 378 c: 14 ... old: 9.33
## [1] " --> 23.6982"
## [1] "r: 378 c: 15 ... old: 77.5
## [1] " --> 196.85"
## [1] "r: 378 c: 16 ... old: 77.5 TRUE
## [1] " --> 196.85"
## [1] "r: 378 c: 17 ... old: 59.33 TRUE
## [1] " --> 150.6982"
## [1] "r: 378 c: 18 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 378 c: 19 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 378 c: 20 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 378 c: 21 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 378 c: 22 ... old: 33
## [1] " --> 83.82"
## [1] "r: 378 c: 23 ... old: 33 TRUE
## [1] " --> 83.82"
## [1] "r: 378 c: 24 ... old: 35.5 TRUE
## [1] " --> 90.17"
## [1] "r: 378 c: 25 ... old: 45 TRUE
## [1] " --> 114.3"
## [1] "r: 378 c: 26 ... old: 45 TRUE
## [1] " --> 114.3"
## [1] "r: 378 c: 27 ... old: Inch FALSE
## [1] "r: 378 c: 28 ... old: right FALSE
## [1] "r: 378 c: 29 ... old: left FALSE
## [1] "r: 378 c: 30 ... old: Brown FALSE
## [1] "r: 378 c: 31 ... old: right FALSE
## [1] "r: 378 c: 33 ... old: female FALSE
## [1] "r: 378 c: 36 ... old: African American FALSE
## [1] "r: 378 c: 37 ... old: possible ancestry may include: Ethiopian FALSE
```

```
## [1] "r: 378 c: 38 ... old: 6.29 TRUE
## [1] " --> 15.9766"
## [1] "r: 378 c: 39 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 378 c: 40 ... old: 15.25 TRUE
## [1] " --> 38.735"
## [1] "r: 378 c: 41 ... old: 9.33 TRUE
## [1] " --> 23.6982"
## [1] "r: 378 c: 42 ... old: 77.5 TRUE
## [1] " --> 196.85"
## [1] "r: 378 c: 43 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 378 c: 44 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 378 c: 45 ... old: 33 TRUE
## [1] " --> 83.82"
## [1] "r: 378 c: 46 ... old: 45 TRUE
## [1] " --> 114.3"
## [1] "r: 379 c: 1 ... old: ecfaf244516c0630fcdef6fbabceabbb FALSE
## [1] "r: 379 c: 2 ... old: a0efd91ed85b6c75933d3381b8cb634f FALSE
## [1] "r: 379 c: 3 ... old: right FALSE
## [1] "r: 379 c: 4 ... old: 65 TRUE
## [1] " --> 165.1"
## [1] "r: 379 c: 5 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 379 c: 6 ... old: 21.25 TRUE
## [1] " --> 53.975"
## [1] "r: 379 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 379 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 379 c: 9 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 379 c: 10 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 379 c: 11 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 379 c: 12 ... old: 17.25 TRUE
## [1] " --> 43.815"
## [1] "r: 379 c: 13 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 379 c: 14 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 379 c: 15 ... old: 83 TRUE
## [1] " --> 210.82"
## [1] "r: 379 c: 16 ... old: 84 TRUE
## [1] " --> 213.36"
## [1] "r: 379 c: 17 ... old: 65 TRUE
## [1] " --> 165.1"
## [1] "r: 379 c: 18 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 379 c: 19 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 379 c: 20 ... old: 19.25 TRUE
```

```
## [1] " --> 48.895"
## [1] "r: 379 c: 21 ... old: 19.33 TRUE
## [1] " --> 49.0982"
## [1] "r: 379 c: 22 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 379 c: 23 ... old: 36
                                TRUE
## [1] " --> 91.44"
## [1] "r: 379 c: 24 ... old: 40
## [1] " --> 101.6"
## [1] "r: 379 c: 25 ... old: 51 TRUE
## [1] " --> 129.54"
## [1] "r: 379 c: 26 ... old: 51 TRUE
## [1] " --> 129.54"
## [1] "r: 379 c: 27 ... old: Inch FALSE
## [1] "r: 379 c: 28 ... old: left FALSE
## [1] "r: 379 c: 29 ... old: left FALSE
## [1] "r: 379 c: 30 ... old: Brown FALSE
## [1] "r: 379 c: 31 ... old: left FALSE
## [1] "r: 379 c: 33 ... old: male FALSE
## [1] "r: 379 c: 36 ... old: African American FALSE
## [1] "r: 379 c: 37 ... old: possible ancestry may include: Ethiopian FALSE
## [1] "r: 379 c: 38 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 379 c: 39 ... old: 6.625 TRUE
## [1] " --> 16.8275"
## [1] "r: 379 c: 40 ... old: 17.125 TRUE
## [1] " --> 43.4975"
## [1] "r: 379 c: 41 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 379 c: 42 ... old: 83.5 TRUE
## [1] " --> 212.09"
## [1] "r: 379 c: 43 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 379 c: 44 ... old: 19.29 TRUE
## [1] " --> 48.9966"
## [1] "r: 379 c: 45 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 379 c: 46 ... old: 51 TRUE
## [1] " --> 129.54"
## [1] "r: 380 c: 1 ... old: 67e1e1164469564c1513c6826d7f2372 FALSE
## [1] "r: 380 c: 2 ... old: 256797eb19c0fa5688bb135ac9441f2d FALSE
## [1] "r: 380 c: 3 ... old: right FALSE
## [1] "r: 380 c: 4 ... old: 69 TRUE
## [1] " --> 175.26"
## [1] "r: 380 c: 5 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 380 c: 6 ... old: 22.3 TRUE
## [1] " --> 56.642"
## [1] "r: 380 c: 7 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 380 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 380 c: 9 ... old: 6 TRUE
## [1] " --> 15.24"
```

```
## [1] "r: 380 c: 10 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 380 c: 11 ... old: 17 TRUE
## [1] " --> 43.18"
## [1] "r: 380 c: 12 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 380 c: 13 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 380 c: 14 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 380 c: 15 ... old: 88
## [1] " --> 223.52"
## [1] "r: 380 c: 16 ... old: 89
                                 TRUE
## [1] " --> 226.06"
## [1] "r: 380 c: 17 ... old: 67
## [1] " --> 170.18"
## [1] "r: 380 c: 18 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 380 c: 19 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 380 c: 20 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 380 c: 21 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 380 c: 22 ... old: 38 TRUE
## [1] " --> 96.52"
## [1] "r: 380 c: 23 ... old: 38
                                 TRUE
## [1] " --> 96.52"
## [1] "r: 380 c: 24 ... old: 41
## [1] " --> 104.14"
## [1] "r: 380 c: 25 ... old: 49
## [1] " --> 124.46"
## [1] "r: 380 c: 26 ... old: 48 TRUE
## [1] " --> 121.92"
## [1] "r: 380 c: 27 ... old: Inch FALSE
## [1] "r: 380 c: 28 ... old: right FALSE
## [1] "r: 380 c: 29 ... old: left FALSE
## [1] "r: 380 c: 30 ... old: Brown FALSE
## [1] "r: 380 c: 31 ... old: right FALSE
## [1] "r: 380 c: 33 ... old: male FALSE
## [1] "r: 380 c: 36 ... old: African American FALSE
## [1] "r: 380 c: 37 ... old: possible ancestry may include: Ethiopian, quickly estimated a couple m
## [1] "r: 380 c: 38 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 380 c: 39 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 380 c: 40 ... old: 16.75 TRUE
## [1] " --> 42.545"
## [1] "r: 380 c: 41 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 380 c: 42 ... old: 88.5 TRUE
## [1] " --> 224.79"
## [1] "r: 380 c: 43 ... old: 10 TRUE
## [1] " --> 25.4"
```

```
## [1] "r: 380 c: 44 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 380 c: 45 ... old: 38 TRUE
## [1] " --> 96.52"
## [1] "r: 380 c: 46 ... old: 48.5 TRUE
## [1] " --> 123.19"
## [1] "r: 381 c: 1 ... old: 5ec754244f7607ffe7adb8de39646687 FALSE
## [1] "r: 381 c: 2 ... old: 8ecc0180e629c0d5450b50a4c9780587 FALSE
## [1] "r: 381 c: 3 ... old: right FALSE
## [1] "r: 381 c: 4 ... old: 68 TRUE
## [1] " --> 172.72"
## [1] "r: 381 c: 5 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 381 c: 6 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 381 c: 7 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 381 c: 8 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 381 c: 9 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 381 c: 10 ... old: 8.75
## [1] " --> 22.225"
## [1] "r: 381 c: 11 ... old: 18.5 TRUE
## [1] " --> 46.99"
## [1] "r: 381 c: 12 ... old: 18.25
                                   TRUE
## [1] " --> 46.355"
## [1] "r: 381 c: 13 ... old: 14.25
                                    TRUE
## [1] " --> 36.195"
## [1] "r: 381 c: 14 ... old: 14.5 TRUE
## [1] " --> 36.83"
## [1] "r: 381 c: 15 ... old: 78.5 TRUE
## [1] " --> 199.39"
## [1] "r: 381 c: 16 ... old: 78.25
                                    TRUE
## [1] " --> 198.755"
## [1] "r: 381 c: 17 ... old: 68.25
                                    TRUE
## [1] " --> 173.355"
## [1] "r: 381 c: 18 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 381 c: 19 ... old: 10.25 TRUE
## [1] " --> 26.035"
## [1] "r: 381 c: 20 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 381 c: 21 ... old: 17.75 TRUE
## [1] " --> 45.085"
## [1] "r: 381 c: 22 ... old: 34 TRUE
## [1] " --> 86.36"
## [1] "r: 381 c: 23 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 381 c: 24 ... old: 36.5 TRUE
## [1] " --> 92.71"
## [1] "r: 381 c: 25 ... old: 51.5 TRUE
## [1] " --> 130.81"
## [1] "r: 381 c: 26 ... old: 51.25 TRUE
```

```
## [1] " --> 130.175"
## [1] "r: 381 c: 27 ... old: Inch FALSE
## [1] "r: 381 c: 28 ... old: left FALSE
## [1] "r: 381 c: 29 ... old: right FALSE
## [1] "r: 381 c: 30 ... old: Brown FALSE
## [1] "r: 381 c: 31 ... old: left FALSE
## [1] "r: 381 c: 33 ... old: male FALSE
## [1] "r: 381 c: 36 ... old: African American FALSE
## [1] "r: 381 c: 37 ... old: possible ancestry may include: Ethiopian FALSE
## [1] "r: 381 c: 38 ... old: 7.875 TRUE
## [1] " --> 20.0025"
## [1] "r: 381 c: 39 ... old: 8.625 TRUE
## [1] " --> 21.9075"
## [1] "r: 381 c: 40 ... old: 18.375
## [1] " --> 46.6725"
## [1] "r: 381 c: 41 ... old: 14.375
                                     TRUE
## [1] " --> 36.5125"
## [1] "r: 381 c: 42 ... old: 78.375
## [1] " --> 199.0725"
## [1] "r: 381 c: 43 ... old: 10.375
## [1] " --> 26.3525"
## [1] "r: 381 c: 44 ... old: 17.625
## [1] " --> 44.7675"
## [1] "r: 381 c: 45 ... old: 34.5 TRUE
## [1] " --> 87.63"
## [1] "r: 381 c: 46 ... old: 51.375 TRUE
## [1] " --> 130.4925"
## [1] "r: 382 c: 1 ... old: b5308193c0efcd28009d8b24742fda85 FALSE
## [1] "r: 382 c: 2 ... old: 6cbfe40d341ebdb303629ddc4f360e7b FALSE
## [1] "r: 382 c: 3 ... old: right FALSE
## [1] "r: 382 c: 4 ... old: 68 TRUE
## [1] " --> 172.72"
## [1] "r: 382 c: 5 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 382 c: 6 ... old: 20.25 TRUE
## [1] " --> 51.435"
## [1] "r: 382 c: 7 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 382 c: 8 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 382 c: 9 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 382 c: 10 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 382 c: 11 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 382 c: 12 ... old: 18.25 TRUE
## [1] " --> 46.355"
## [1] "r: 382 c: 13 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 382 c: 14 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 382 c: 15 ... old: 79 TRUE
## [1] " --> 200.66"
```

```
## [1] "r: 382 c: 16 ... old: 79.25 TRUE
## [1] " --> 201.295"
## [1] "r: 382 c: 17 ... old: 70 TRUE
## [1] " --> 177.8"
## [1] "r: 382 c: 18 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 382 c: 19 ... old: 10.5
## [1] " --> 26.67"
## [1] "r: 382 c: 20 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 382 c: 21 ... old: 17.75 TRUE
## [1] " --> 45.085"
## [1] "r: 382 c: 22 ... old: 32 TRUE
## [1] " --> 81.28"
## [1] "r: 382 c: 23 ... old: 33 TRUE
## [1] " --> 83.82"
## [1] "r: 382 c: 24 ... old: 35.25 TRUE
## [1] " --> 89.535"
## [1] "r: 382 c: 25 ... old: 50.25 TRUE
## [1] " --> 127.635"
## [1] "r: 382 c: 26 ... old: 50.5 TRUE
## [1] " --> 128.27"
## [1] "r: 382 c: 27 ... old: Inch FALSE
## [1] "r: 382 c: 28 ... old: right FALSE
## [1] "r: 382 c: 29 ... old: left FALSE
## [1] "r: 382 c: 30 ... old: Brown FALSE
## [1] "r: 382 c: 31 ... old: right FALSE
## [1] "r: 382 c: 33 ... old: male FALSE
## [1] "r: 382 c: 36 ... old: Asian FALSE
## [1] "r: 382 c: 37 ... old: possible ancestry may include: Vietnamiese FALSE
## [1] "r: 382 c: 38 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 382 c: 39 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 382 c: 40 ... old: 18.125 TRUE
## [1] " --> 46.0375"
## [1] "r: 382 c: 41 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 382 c: 42 ... old: 79.125 TRUE
## [1] " --> 200.9775"
## [1] "r: 382 c: 43 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 382 c: 44 ... old: 17.625 TRUE
## [1] " --> 44.7675"
## [1] "r: 382 c: 45 ... old: 32.5 TRUE
## [1] " --> 82.55"
## [1] "r: 382 c: 46 ... old: 50.375 TRUE
## [1] " --> 127.9525"
## [1] "r: 383 c: 1 ... old: 0e672b35628c692c17853f0c53986f17 FALSE
## [1] "r: 383 c: 2 ... old: 5c2f639550d9c99da8a2eefb68a5f1b6 FALSE
## [1] "r: 383 c: 3 ... old: right FALSE
## [1] "r: 383 c: 4 ... old: 70 TRUE
## [1] " --> 177.8"
## [1] "r: 383 c: 5 ... old: 8.5 TRUE
```

```
## [1] " --> 21.59"
## [1] "r: 383 c: 6 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 383 c: 7 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 383 c: 8 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 383 c: 9 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 383 c: 10 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 383 c: 11 ... old: 18.5 TRUE
## [1] " --> 46.99"
## [1] "r: 383 c: 12 ... old: 18.75 TRUE
## [1] " --> 47.625"
## [1] "r: 383 c: 13 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 383 c: 14 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 383 c: 15 ... old: 82 TRUE
## [1] " --> 208.28"
## [1] "r: 383 c: 16 ... old: 81.25 TRUE
## [1] " --> 206.375"
## [1] "r: 383 c: 17 ... old: 73 TRUE
## [1] " --> 185.42"
## [1] "r: 383 c: 18 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 383 c: 19 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 383 c: 20 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 383 c: 21 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 383 c: 22 ... old: 33.5 TRUE
## [1] " --> 85.09"
## [1] "r: 383 c: 23 ... old: 33.25
                                   TRUE
## [1] " --> 84.455"
## [1] "r: 383 c: 24 ... old: 34.25
                                   TRUE
## [1] " --> 86.995"
## [1] "r: 383 c: 25 ... old: 51.25 TRUE
## [1] " --> 130.175"
## [1] "r: 383 c: 26 ... old: 51.5 TRUE
## [1] " --> 130.81"
## [1] "r: 383 c: 27 ... old: Inch FALSE
## [1] "r: 383 c: 28 ... old: left FALSE
## [1] "r: 383 c: 29 ... old: left FALSE
## [1] "r: 383 c: 30 ... old: Brown FALSE
## [1] "r: 383 c: 31 ... old: left FALSE
## [1] "r: 383 c: 33 ... old: male FALSE
## [1] "r: 383 c: 36 ... old: Caucasian FALSE
## [1] "r: 383 c: 37 ... old: possible ancestry may include: Turkish FALSE
## [1] "r: 383 c: 38 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 383 c: 39 ... old: 9 TRUE
```

```
## [1] " --> 22.86"
## [1] "r: 383 c: 40 ... old: 18.625 TRUE
## [1] " --> 47.3075"
## [1] "r: 383 c: 41 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 383 c: 42 ... old: 81.625 TRUE
## [1] " --> 207.3275"
## [1] "r: 383 c: 43 ... old: 11 TRUE
## [1] " --> 27.94"
## [1] "r: 383 c: 44 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 383 c: 45 ... old: 33.375 TRUE
## [1] " --> 84.7725"
## [1] "r: 383 c: 46 ... old: 51.375 TRUE
## [1] " --> 130.4925"
## [1] "r: 384 c: 1 ... old: 629993a0da2e6179b41e20bc5f666120 FALSE
## [1] "r: 384 c: 2 ... old: 8764c922d792e1b418a3cca4f8dc01f8 FALSE
## [1] "r: 384 c: 3 ... old: right FALSE
## [1] "r: 384 c: 4 ... old: 60 TRUE
## [1] " --> 152.4"
## [1] "r: 384 c: 5 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 384 c: 6 ... old: 20 TRUE
## [1] " --> 50.8"
## [1] "r: 384 c: 7 ... old: 6.25 TRUE
## [1] " --> 15.875"
## [1] "r: 384 c: 8 ... old: 6.25 TRUE
## [1] " --> 15.875"
## [1] "r: 384 c: 9 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 384 c: 10 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 384 c: 11 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 384 c: 12 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 384 c: 13 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 384 c: 14 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 384 c: 15 ... old: 76 TRUE
## [1] " --> 193.04"
## [1] "r: 384 c: 16 ... old: 77 TRUE
## [1] " --> 195.58"
## [1] "r: 384 c: 17 ... old: 61
## [1] " --> 154.94"
## [1] "r: 384 c: 18 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 384 c: 19 ... old: 8.75 TRUE
## [1] " --> 22.225"
## [1] "r: 384 c: 20 ... old: 15.75 TRUE
## [1] " --> 40.005"
## [1] "r: 384 c: 21 ... old: 16 TRUE
## [1] " --> 40.64"
```

```
## [1] "r: 384 c: 22 ... old: 33.25 TRUE
## [1] " --> 84.455"
## [1] "r: 384 c: 23 ... old: 33.5 TRUE
## [1] " --> 85.09"
## [1] "r: 384 c: 24 ... old: 36 TRUE
## [1] " --> 91.44"
## [1] "r: 384 c: 25 ... old: 51.5 TRUE
## [1] " --> 130.81"
## [1] "r: 384 c: 26 ... old: 51.5 TRUE
## [1] " --> 130.81"
## [1] "r: 384 c: 27 ... old: Inch FALSE
## [1] "r: 384 c: 28 ... old: right FALSE
## [1] "r: 384 c: 29 ... old: right FALSE
## [1] "r: 384 c: 30 ... old: Brown FALSE
## [1] "r: 384 c: 31 ... old: right FALSE
## [1] "r: 384 c: 33 ... old: female FALSE
## [1] "r: 384 c: 36 ... old: Caucasian FALSE
## [1] "r: 384 c: 37 ... old: possible ancestry may include: Turkish FALSE
## [1] "r: 384 c: 38 ... old: 6.25 TRUE
## [1] " --> 15.875"
## [1] "r: 384 c: 39 ... old: 7.125 TRUE
## [1] " --> 18.0975"
## [1] "r: 384 c: 40 ... old: 15 TRUE
## [1] " --> 38.1"
## [1] "r: 384 c: 41 ... old: 8.625 TRUE
## [1] " --> 21.9075"
## [1] "r: 384 c: 42 ... old: 76.5 TRUE
## [1] " --> 194.31"
## [1] "r: 384 c: 43 ... old: 8.625
## [1] " --> 21.9075"
## [1] "r: 384 c: 44 ... old: 15.875 TRUE
## [1] " --> 40.3225"
## [1] "r: 384 c: 45 ... old: 33.375 TRUE
## [1] " --> 84.7725"
## [1] "r: 384 c: 46 ... old: 51.5 TRUE
## [1] " --> 130.81"
## [1] "r: 385 c: 1 ... old: 92c08bfae43328e218bb8bb66d0e9a72 FALSE
## [1] "r: 385 c: 2 ... old: 5b96477ccce605e4a4ded6b6bf0f6931 FALSE
## [1] "r: 385 c: 3 ... old: right FALSE
## [1] "r: 385 c: 4 ... old: 60.5 TRUE
## [1] " --> 153.67"
## [1] "r: 385 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 385 c: 6 ... old: 23 TRUE
## [1] " --> 58.42"
## [1] "r: 385 c: 7 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 385 c: 8 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 385 c: 9 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 385 c: 10 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 385 c: 11 ... old: 15 TRUE
```

```
## [1] " --> 38.1"
## [1] "r: 385 c: 12 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 385 c: 13 ... old: 13 TRUE
## [1] " --> 33.02"
## [1] "r: 385 c: 14 ... old: 14 TRUE
## [1] " --> 35.56"
## [1] "r: 385 c: 15 ... old: 61 TRUE
## [1] " --> 154.94"
## [1] "r: 385 c: 16 ... old: 59 TRUE
## [1] " --> 149.86"
## [1] "r: 385 c: 17 ... old: 62 TRUE
## [1] " --> 157.48"
## [1] "r: 385 c: 18 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 385 c: 19 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 385 c: 20 ... old: 18.5 TRUE
## [1] " --> 46.99"
## [1] "r: 385 c: 21 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 385 c: 22 ... old: 36
## [1] " --> 91.44"
## [1] "r: 385 c: 23 ... old: 35
## [1] " --> 88.9"
## [1] "r: 385 c: 24 ... old: 38
## [1] " --> 96.52"
## [1] "r: 385 c: 25 ... old: 46 TRUE
## [1] " --> 116.84"
## [1] "r: 385 c: 26 ... old: 45 TRUE
## [1] " --> 114.3"
## [1] "r: 385 c: 27 ... old: Inch FALSE
## [1] "r: 385 c: 28 ... old: left FALSE
## [1] "r: 385 c: 29 ... old: left FALSE
## [1] "r: 385 c: 30 ... old: Blue FALSE
## [1] "r: 385 c: 31 ... old: left FALSE
## [1] "r: 385 c: 33 ... old: female FALSE
## [1] "r: 385 c: 36 ... old: African American FALSE
## [1] "r: 385 c: 37 ... old: possible ancestry may include: Ethiopian FALSE
## [1] "r: 385 c: 38 ... old: 6.5 TRUE
## [1] " --> 16.51"
## [1] "r: 385 c: 39 ... old: 6 TRUE
## [1] " --> 15.24"
## [1] "r: 385 c: 40 ... old: 15.5 TRUE
## [1] " --> 39.37"
## [1] "r: 385 c: 41 ... old: 13.5 TRUE
## [1] " --> 34.29"
## [1] "r: 385 c: 42 ... old: 60 TRUE
## [1] " --> 152.4"
## [1] "r: 385 c: 43 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 385 c: 44 ... old: 18.25 TRUE
## [1] " --> 46.355"
## [1] "r: 385 c: 45 ... old: 35.5 TRUE
```

```
## [1] " --> 90.17"
## [1] "r: 385 c: 46 ... old: 45.5 TRUE "
## [1] " --> 115.57"
## [1] "r: 386 c: 1 ... old: 448246f05cc1bd4128b33465736ceecc FALSE
## [1] "r: 386 c: 2 ... old: 89ef50937da644537ff6b0617aa19b30 FALSE
## [1] "r: 386 c: 3 ... old: right FALSE
## [1] "r: 386 c: 4 ... old: 66 TRUE
## [1] " --> 167.64"
## [1] "r: 386 c: 5 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 386 c: 6 ... old: 21 TRUE
## [1] " --> 53.34"
## [1] "r: 386 c: 7 ... old: 7.25
                                 TRUE
## [1] " --> 18.415"
## [1] "r: 386 c: 8 ... old: 7.25
                                  TRUE
## [1] " --> 18.415"
## [1] "r: 386 c: 9 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 386 c: 10 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 386 c: 11 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 386 c: 12 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 386 c: 13 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 386 c: 14 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 386 c: 15 ... old: 84 TRUE
## [1] " --> 213.36"
## [1] "r: 386 c: 16 ... old: 84 TRUE
## [1] " --> 213.36"
## [1] "r: 386 c: 17 ... old: 70 TRUE
## [1] " --> 177.8"
## [1] "r: 386 c: 18 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 386 c: 19 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 386 c: 20 ... old: 16.25 TRUE
## [1] " --> 41.275"
## [1] "r: 386 c: 21 ... old: 16.25 TRUE
## [1] " --> 41.275"
## [1] "r: 386 c: 22 ... old: 34.5 TRUE
## [1] " --> 87.63"
## [1] "r: 386 c: 23 ... old: 34.5
                                  TRUE
## [1] " --> 87.63"
## [1] "r: 386 c: 24 ... old: 39 TRUE
## [1] " --> 99.06"
## [1] "r: 386 c: 25 ... old: 55 TRUE
## [1] " --> 139.7"
## [1] "r: 386 c: 26 ... old: 55 TRUE
## [1] " --> 139.7"
## [1] "r: 386 c: 27 ... old: Inch FALSE
## [1] "r: 386 c: 28 ... old: right FALSE
```

```
## [1] "r: 386 c: 29 ... old: left FALSE
## [1] "r: 386 c: 30 ... old: Brown FALSE
## [1] "r: 386 c: 31 ... old: right FALSE
## [1] "r: 386 c: 33 ... old: male FALSE
## [1] "r: 386 c: 36 ... old: Asian FALSE
## [1] "r: 386 c: 37 ... old: possible ancestry may include: Vietnamiese FALSE
## [1] "r: 386 c: 38 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 386 c: 39 ... old: 7.75 TRUE
## [1] " --> 19.685"
## [1] "r: 386 c: 40 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 386 c: 41 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 386 c: 42 ... old: 84 TRUE
## [1] " --> 213.36"
## [1] "r: 386 c: 43 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 386 c: 44 ... old: 16.25 TRUE
## [1] " --> 41.275"
## [1] "r: 386 c: 45 ... old: 34.5 TRUE
## [1] " --> 87.63"
## [1] "r: 386 c: 46 ... old: 55 TRUE
## [1] " --> 139.7"
## [1] "r: 393 c: 1 ... old: 18a53b0cfa2bcde3c1d12e74a2e10268 FALSE
## [1] "r: 393 c: 2 ... old: 315231a7937b3434f3161307f49d491b FALSE
## [1] "r: 393 c: 3 ... old: right FALSE
## [1] "r: 393 c: 4 ... old: 67.75 TRUE
## [1] " --> 172.085"
## [1] "r: 393 c: 5 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 393 c: 6 ... old: 23.5 TRUE
## [1] " --> 59.69"
## [1] "r: 393 c: 7 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 393 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 393 c: 9 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 393 c: 10 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 393 c: 11 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 393 c: 12 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 393 c: 13 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 393 c: 14 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 393 c: 15 ... old: 82.5 TRUE
## [1] " --> 209.55"
## [1] "r: 393 c: 16 ... old: 82 TRUE
## [1] " --> 208.28"
## [1] "r: 393 c: 17 ... old: 66.5 TRUE
```

```
## [1] " --> 168.91"
## [1] "r: 393 c: 18 ... old: 10.75 TRUE
## [1] " --> 27.305"
## [1] "r: 393 c: 19 ... old: 10.5 TRUE
## [1] " --> 26.67"
## [1] "r: 393 c: 20 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 393 c: 21 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 393 c: 22 ... old: 38 TRUE
## [1] " --> 96.52"
## [1] "r: 393 c: 23 ... old: 38.5 TRUE
## [1] " --> 97.79"
## [1] "r: 393 c: 24 ... old: 38.5 TRUE
## [1] " --> 97.79"
## [1] "r: 393 c: 25 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 393 c: 26 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 393 c: 27 ... old: in FALSE
## [1] "r: 393 c: 28 ... old: right FALSE
## [1] "r: 393 c: 29 ... old: NA FALSE
## [1] "r: 393 c: 30 ... old: blue FALSE
## [1] "r: 393 c: 31 ... old: right FALSE
## [1] "r: 393 c: 33 ... old: male FALSE
## [1] "r: 393 c: 36 ... old: white FALSE "
## [1] "r: 393 c: 37 ... old: possible ancestry may include: irish FALSE
## [1] "r: 393 c: 38 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 393 c: 39 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 393 c: 40 ... old: 18 TRUE
## [1] " --> 45.72"
## [1] "r: 393 c: 41 ... old: 9.25 TRUE
## [1] " --> 23.495"
## [1] "r: 393 c: 42 ... old: 82.25 TRUE
## [1] " --> 208.915"
## [1] "r: 393 c: 43 ... old: 10.625 TRUE
## [1] " --> 26.9875"
## [1] "r: 393 c: 44 ... old: 19 TRUE
## [1] " --> 48.26"
## [1] "r: 393 c: 45 ... old: 38.25 TRUE
## [1] " --> 97.155"
## [1] "r: 393 c: 46 ... old: 54 TRUE
## [1] " --> 137.16"
## [1] "r: 394 c: 1 ... old: 18a53b0cfa2bcde3c1d12e74a2e10268 FALSE
## [1] "r: 394 c: 2 ... old: 9f1e5a14a0baf69bc7d5d658ddb53338 FALSE
## [1] "r: 394 c: 3 ... old: right FALSE
## [1] "r: 394 c: 4 ... old: 62 TRUE
## [1] " --> 157.48"
## [1] "r: 394 c: 5 ... old: 8 TRUE
## [1] " --> 20.32"
## [1] "r: 394 c: 6 ... old: 21.5 TRUE "
## [1] " --> 54.61"
```

```
## [1] "r: 394 c: 7 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 394 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 394 c: 9 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 394 c: 10 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 394 c: 11 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 394 c: 12 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 394 c: 13 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 394 c: 14 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 394 c: 15 ... old: 77 TRUE
## [1] " --> 195.58"
## [1] "r: 394 c: 16 ... old: 76.5 TRUE
## [1] " --> 194.31"
## [1] "r: 394 c: 17 ... old: 60 TRUE
## [1] " --> 152.4"
## [1] "r: 394 c: 18 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 394 c: 19 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 394 c: 20 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 394 c: 21 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 394 c: 22 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 394 c: 23 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 394 c: 24 ... old: 36.5 TRUE
## [1] " --> 92.71"
## [1] "r: 394 c: 25 ... old: 49 TRUE
## [1] " --> 124.46"
## [1] "r: 394 c: 26 ... old: 49 TRUE
## [1] " --> 124.46"
## [1] "r: 394 c: 27 ... old: in FALSE
## [1] "r: 394 c: 28 ... old: right FALSE
## [1] "r: 394 c: 29 ... old: right FALSE
## [1] "r: 394 c: 30 ... old: green FALSE
## [1] "r: 394 c: 31 ... old: left FALSE
## [1] "r: 394 c: 33 ... old: female FALSE
## [1] "r: 394 c: 36 ... old: white FALSE
## [1] "r: 394 c: 37 ... old: NA FALSE "
## [1] "r: 394 c: 38 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 394 c: 39 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 394 c: 40 ... old: 16 TRUE
## [1] " --> 40.64"
```

```
## [1] "r: 394 c: 41 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 394 c: 42 ... old: 76.75 TRUE
## [1] " --> 194.945"
## [1] "r: 394 c: 43 ... old: 9 TRUE
## [1] " --> 22.86"
## [1] "r: 394 c: 44 ... old: 17.5 TRUE
## [1] " --> 44.45"
## [1] "r: 394 c: 45 ... old: 35 TRUE
## [1] " --> 88.9"
## [1] "r: 394 c: 46 ... old: 49 TRUE
## [1] " --> 124.46"
## [1] "r: 395 c: 1 ... old: 18a53b0cfa2bcde3c1d12e74a2e10268 FALSE
## [1] "r: 395 c: 2 ... old: d770a59f57acae2bf7e703192ba8ee50 FALSE
## [1] "r: 395 c: 3 ... old: right FALSE
## [1] "r: 395 c: 4 ... old: 61 TRUE
## [1] " --> 154.94"
## [1] "r: 395 c: 5 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 395 c: 6 ... old: 22.5 TRUE
## [1] " --> 57.15"
## [1] "r: 395 c: 7 ... old: 7.5 TRUE
## [1] " --> 19.05"
## [1] "r: 395 c: 8 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 395 c: 9 ... old: 7 TRUE
## [1] " --> 17.78"
## [1] "r: 395 c: 10 ... old: 6.75 TRUE
## [1] " --> 17.145"
## [1] "r: 395 c: 11 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 395 c: 12 ... old: 16.5 TRUE
## [1] " --> 41.91"
## [1] "r: 395 c: 13 ... old: 10 TRUE
## [1] " --> 25.4"
## [1] "r: 395 c: 14 ... old: 9.5 TRUE
## [1] " --> 24.13"
## [1] "r: 395 c: 15 ... old: 73.5 TRUE
## [1] " --> 186.69"
## [1] "r: 395 c: 16 ... old: 74 TRUE
## [1] " --> 187.96"
## [1] "r: 395 c: 17 ... old: 60 TRUE
## [1] " --> 152.4"
## [1] "r: 395 c: 18 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 395 c: 19 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 395 c: 20 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 395 c: 21 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 395 c: 22 ... old: 33 TRUE
## [1] " --> 83.82"
## [1] "r: 395 c: 23 ... old: 32.5 TRUE
```

```
## [1] " --> 82.55"
## [1] "r: 395 c: 24 ... old: 33.5 TRUE
## [1] " --> 85.09"
## [1] "r: 395 c: 25 ... old: 48.5 TRUE
## [1] " --> 123.19"
## [1] "r: 395 c: 26 ... old: 49 TRUE
## [1] " --> 124.46"
## [1] "r: 395 c: 27 ... old: in FALSE
## [1] "r: 395 c: 28 ... old: right FALSE
## [1] "r: 395 c: 29 ... old: right FALSE
## [1] "r: 395 c: 30 ... old: brown FALSE
## [1] "r: 395 c: 31 ... old: right FALSE
## [1] "r: 395 c: 33 ... old: non-binary FALSE
## [1] "r: 395 c: 36 ... old: asian FALSE
## [1] "r: 395 c: 37 ... old: possible ancestry may include: korean FALSE
## [1] "r: 395 c: 38 ... old: 7.25 TRUE
## [1] " --> 18.415"
## [1] "r: 395 c: 39 ... old: 6.875 TRUE
## [1] " --> 17.4625"
## [1] "r: 395 c: 40 ... old: 16.25
## [1] " --> 41.275"
## [1] "r: 395 c: 41 ... old: 9.75 TRUE
## [1] " --> 24.765"
## [1] "r: 395 c: 42 ... old: 73.75 TRUE
## [1] " --> 187.325"
## [1] "r: 395 c: 43 ... old: 8.5 TRUE
## [1] " --> 21.59"
## [1] "r: 395 c: 44 ... old: 16 TRUE
## [1] " --> 40.64"
## [1] "r: 395 c: 45 ... old: 32.75 TRUE
## [1] " --> 83.185"
## [1] "r: 395 c: 46 ... old: 48.75 TRUE
## [1] " --> 123.825"
measure.short = measure[,c(1,2,4:6,17,24,27:50)];
myNames = gsub(".NA","", colnames(measure.short), fixed=TRUE);
colnames(measure.short) = myNames;
colnames(measure.short)[11] = "eye.color"
saveRDS(measure, "measure.rds");
measure.short = measure[,c(1,2,4:6,17,24,27:50)];
myNames = gsub(".NA","", colnames(measure.short), fixed=TRUE);
colnames(measure.short) = myNames;
colnames(measure.short)[11] = "eye.color";
measure.df = removeDuplicatesFromDataFrameAllColumns(measure.short);
measure.df
##
                         data collector
                                                                   person id
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331 7e6e6a69493f1d54a74ecdd4058ebadf 332 7e6e6a69493f1d54a74ecdd4058ebadf 333 7e6e6a69493f1d54a74ecdd4058ebadf 334 7e6e6a69493f1d54a74ecdd4058ebadf 335 7e6e6a69493f1d54a74ecdd4058ebadf 336 7e6e6a69493f1d54a74ecdd4058ebadf ## 337 f697d5c9213997cc167707e4f07a8da8 338 f697d5c9213997cc167707e4f07a8da8 339 f697d5c9213997cc167707e4f07a8da8 340 f697d5c9213997cc167707e4f07a8da8 341 f697d5c9213997cc167707e4f07a8da8 342 f697d5c9213997cc167707e4f07a8da8 343 f697d5c9213997cc167707e4f07a8da8 344 f697d5c9213997cc167707e4f07a8da8 345 f697d5c9213997cc167707e4f07a8da8 346 f697d5c9213997cc167707e4f07a8da8 347 54da3e417c8efaddfe60f2634e0655ff 348 3278ce887bc37a4d45550d5e8a6d6828 349 9eb3d5323b1a3c511c3b8c8038727737 350 ae042cc7daa59392f0ae30e0d7efea55 ## 351 7e7c74a4b3543bfd71fdce2f52df44e2 352 18ec34f5d5544bbb34ac03bbd62d61cf 353 4c2954ca87d25ecb003e253dff6485b7 354 7e01a8e692e1c5459b716e6af849922e 355 d4c40ebf6bd149deed005ca123fa3110 356 3a263ca1825c7810dd45e801c9e9f45f 357 ed892caec7a86a00ec5fbefdf5f44faf 358 ed892caec7a86a00ec5fbefdf5f44faf 359 ed892caec7a86a00ec5fbefdf5f44faf ## 360 ed892caec7a86a00ec5fbefdf5f44faf 361 ed892caec7a86a00ec5fbefdf5f44faf 362 ed892caec7a86a00ec5fbefdf5f44faf 363 ed892caec7a86a00ec5fbefdf5f44faf 364 ed892caec7a86a00ec5fbefdf5f44faf 365 ed892caec7a86a00ec5fbefdf5f44faf 366 ed892caec7a86a00ec5fbefdf5f44faf ## 367 86687ae28f9bf74f509bc9cff3e967fe 368 86687ae28f9bf74f509bc9cff3e967fe ## 369 86687ae28f9bf74f509bc9cff3e967fe 370 86687ae28f9bf74f509bc9cff3e967fe ## 371 86687ae28f9bf74f509bc9cff3e967fe 372 86687ae28f9bf74f509bc9cff3e967fe 373 86687ae28f9bf74f509bc9cff3e967fe 374 86687ae28f9bf74f509bc9cff3e967fe 375 86687ae28f9bf74f509bc9cff3e967fe 376 86687ae28f9bf74f509bc9cff3e967fe 377 ecfaf244516c0630fcdef6fbabceabbb 378 ecfaf244516c0630fcdef6fbabceabbb 379 ecfaf244516c0630fcdef6fbabceabbb 380 67e1e1164469564c1513c6826d7f2372 381 5ec754244f7607ffe7adb8de39646687 382 b5308193c0efcd28009d8b24742fda85 383 0e672b35628c692c17853f0c53986f17 ## 384 629993a0da2e6179b41e20bc5f666120

7b57fe76c35503b0a477d287ea00b37f 1d6fdbb06fbbf58b46d607cf1685049e a8e17797adc14c4a0d5e471e1c51e978 fb0584aba84a3668a9bbf0470fba3076 d1c3771b9b322f68e211feb06e6be920 81a9f3915f64dc6edd329b89bea87d5e a97ef9def423fd197a090c1cb628a69f 3036ed5a46ad4a5a95f1539c3380b842 425f17c638540b224c07192d531bb3cb 7c1c7202e4c08021c2f734c5c8e2f087 92bfa27dc07eba67b807bc12b1718d6f 6a2b00bf02f70b2f261665b44e22013a 2fb0249a6780ecbd5fee198521790376 14298d51dc6aa40726467279e600b416 d7349aa570a6e2f2211e14679cd3808b c17bb12cc856350de9e81e40946d5310 "fd4c92272d5a952adf7aad11c20458e1" "ef1cb6e72d149b184cc241037203f60b" "ee33e909372d935d190f4fcb2a92d542" "d0fa06cd93335c8cae357ffe5cd1c4e9" "5d44a032652974c3e53644945a95b126" "3691308f2a4c2f6983f2880d32e29c84" "1f2dfa567dcf95833eddf7aec167fec7" "1e7342845e24eb3b5b3554490da1c128" "051a9911de7b5bbc610b76f4eda834a0" "Â e2075474294983e013ee4dd2201c7a73" 6ce9c1c0b4443b31753cd40c34000efd b133711dfc55c6e89213c01c58d59703 807d5b3793c7e1f047818dd2611b1589 a6d6a2fdf86ad4bc8096955a9f05f1ec 74e358b9e1b44ee6129c7eb3344ee658 99a156a62a0944ba6887b90d4fd77b15 48cebdedc0acd343de4853d8e649058d fc45e3258bed8dcae88f0dc0b3da94df 437d461430ecc08e2d51abbcf5ce9b3c 1ef53b7d22b7e7eafc7c7524078ac709 4e87b49a355ca3040c49e3f513e07a7b 42cf3ac3c39863c610fd0c41888fbcf4 8545c7da3bff6d5e778c19a8e759e351 2264bdbc3a7aae3cb9b76b698f187fcf 0eeb85d58ab4b0dee8fe59e66fd1aa77 1914e0a159363f777885a7f1faca745c b571d735f163b7bc0d011649a9577981 94d8bb7c1e4e9711d4e3bbb0615216e5 39a76aa6cff34621da972e912ea7437f aa0f777f2621c645eb8ebc33644c1fc8 c6b2f100d6271c6090f4275221ed6acd 10b30419e35ec26acc14169166056031 a0efd91ed85b6c75933d3381b8cb634f 256797eb19c0fa5688bb135ac9441f2d 8ecc0180e629c0d5450b50a4c9780587 6cbfe40d341ebdb303629ddc4f360e7b 5c2f639550d9c99da8a2eefb68a5f1b6

8764c922d792e1b418a3cca4f8dc01f8

			28e218bb8bb66d0e9a'				e4a4ded6b6b		
			bd4128b33465736cee				537ff6b0617		
##			cde3c1d12e74a2e102				3fcf4937def		
##			cde3c1d12e74a2e102				55dede69fdd		
##			cde3c1d12e74a2e102				6683fb9e077		
##			cde3c1d12e74a2e102				a1edd60b453		=
##	391	18a53b0cfa2b	cde3c1d12e74a2e102	68 70	5374	c66ddd35	01ccffd1d54	l655411a	L
##	392	18a53b0cfa2b	cde3c1d12e74a2e102	68 Of	ee65	9d076b30	c1c9fbd0ee7	da70aft)
##	393	18a53b0cfa2b	cde3c1d12e74a2e102				34f3161307f		
##	394	18a53b0cfa2b	cde3c1d12e74a2e102	68 9f	1e5a	14a0baf6	9bc7d5d658d	ldb53338	3
##	395	18a53b0cfa2b	cde3c1d12e74a2e102	68 d7	70a5	9f57acae	2bf7e703192	2ba8ee50)
##	396	18a53b0cfa2b	cde3c1d12e74a2e102	68 ce	29d8	c585d5ab	d57d61abc6d	l1cef92a	l
##	397	0185c7c2eed9	d48197953305a817c8	b1 0c	2282	8099b789	d62a96fc1f8	37928f43	3
##	398	0185c7c2eed9	d48197953305a817c8	b1 e8	21ba	1edb9dc0	a445b61d8ce	702052a	L
##	399	0185c7c2eed9	d48197953305a817c8	b1 6b	34fe	24ac2ff8	103f6fce1f0	da2ef57	,
##	400	0185c7c2eed9	d48197953305a817c8	b1 Of	91a4	e5bcb75e	278d54f8cca	1555cc4t)
##	401	0185c7c2eed9	d48197953305a817c8	b1 10	с7сс	c7a4f0af	f03c915c485	565b9da	ι
##	402	0185c7c2eed9	d48197953305a817c8	b1 55	9a7f	208866f0	063b1ea8d5c	:a2ee816	3
##	403	0185c7c2eed9	d48197953305a817c8	b1 a1	361c	b85be840	d6a2d762c68	8e4910e2	2
##	404	0185c7c2eed9	d48197953305a817c8	b1 e6	d9c3	35f6aa36	754461e4dd4	ldb30274	<u> </u>
##	405	0185c7c2eed9	d48197953305a817c8	b1 d6	ba06	82d75eb9	86237fb6b59	94f8a31f	:
##	406	0185c7c2eed9	d48197953305a817c8	b1 58	44a1	5e76563f	edd11840fd6	Sf40ea7b)
##	407	b16ae1eae8d7	351e997e8faf1f734d	2c 6d	7edc	4358342d	5ef92c052cb	7c82057	•
##	408	b16ae1eae8d7	351e997e8faf1f734d	2c bb	a47c	925f1a29	1bc29bd58d1	.9877c27	•
##	409	b16ae1eae8d7	351e997e8faf1f734d	2c 90	e69f	264a8c97	0f3222cf85e	e08425aa	l
##	410	b16ae1eae8d7	351e997e8faf1f734d	2c 35	9172	7d81b72b	421c3725c3b	109f713	3
##	411	b16ae1eae8d7	351e997e8faf1f734d	2c 9f	7192	55d46dd8 [°]	b9b07935d89	1dc5295	5
##	412	b16ae1eae8d7	351e997e8faf1f734d	2c 2a	bb12	95467cad	f82cc69cc38	35c8db49)
##	413	b16ae1eae8d7	351e997e8faf1f734d	2c 88	7bdc	d0dc6901	a24f30b41cf	f267176	3
##	414	b16ae1eae8d7	351e997e8faf1f734d	2c 90	436f	cf8fdad8	e75690525f0	e8a9018	3
##	415	b16ae1eae8d7	351e997e8faf1f734d	2c 20	e2e6	5e581026	7125bf97cb2	235bece	:
##	416	b16ae1eae8d7	351e997e8faf1f734d	2c ea	6212	772478ee	71edd91f89a	f72c134	Ŀ
##	417	d22301490fef	91bdc398d00a35c7b7	90 6c	1a5b	12d4bd24	ab2966ee3f0)4252c40)
##	418	fd540e43a711	2f833051d2ed1fdbbb	f0 28	1879	078eb44e	b9abee3125d	lfdf224a	L
##	419	fd540e43a711	2f833051d2ed1fdbbb	f0 7e	c662	47670954	90c469559de	77ae043	3
##	420	fd540e43a711	2f833051d2ed1fdbbb	f0 c9	43d1	e478cf04	dd55706758c	:a7307a1	-
##	421	59944aec4769	9b65f6a93c79913f64	cd 87	b84e	65079f3a	08a474971aa	7f355ec	l
##	422	59944aec4769	9b65f6a93c79913f64	cd 94	8afe	5abf536d	9099fd9a93b	fa0c54a	l
##	423	59944aec4769	9b65f6a93c79913f64	cd 53	ab2c	b9fc172e	d0b05789e1d	c597e2e)
##	424	d441d1e30322	901bf7caeee33f0ee9	af 5d	2dad	c6682bf4	8ce49de8a50)15a76bc	;
##	425	d441d1e30322	901bf7caeee33f0ee9	af 63	f4ed	4ecc6dd8	196b024634a	aba8207	,
##	426	d441d1e30322	901bf7caeee33f0ee9	af 89	62eb	6c602258	f23fd34ece0	f1a2504	Ŀ
##		height head	d.height head.circ	umference	arm	.span fl	oor.navel	units w	riting
##	1	152.1000	23.0000	NA	148	.2000	NA	cm	right
##	2	174.0000	22.1000	NA	167	.0000	NA	cm	right
##	3	168.0000	18.0000	NA	157	.0000	NA	cm	left
##	4	164.0000	23.0000	NA	155	.0000	NA	cm	right
##	5	181.0000	26.0000	NA	183	.0000	NA	cm	left
##	6	156.2000	22.5000	NA	167	.5000	NA	cm	right
##	7	154.3000	22.5000	NA	150	.1000	NA	cm	right
##	8	154.3000	23.0000	NA	151	.0000	NA	cm	right
##	9	172.7000	20.0000	NA	154	.0000	NA	cm	right
##	10	164.0000	23.0000	NA	154	.3000	NA	cm	right
##	21	145.0000	18.8000	55.3000	141	.7000	86.4000	cm	right

	22	181.0000	24.3000		176.0000	112.5000	cm	right
	23	152.6000	18.3000		159.6000	91.3000	cm	right
	24	169.5000	21.0000		165.0000	105.4000	cm	right
	25	164.9000	19.1000		151.9000	96.0000	cm	left
	26	153.6000	22.2000		161.1000	95.8000	cm	right
	27	177.8000	20.5000		182.8000	104.0000	cm	right
	28	168.3000	22.2000		165.7000	102.0000	cm	left
	29	170.1000	22.5000		168.6000	101.0000	cm	right
	30	151.6000	19.9000		156.0000	94.0000	cm	right
	31	177.1650	23.4950		184.1500	104.7750		right
##	32	113.6650	16.5100		109.5375	65.7225		left
	33	121.2850	17.7800		117.4750	70.1675		right
	34	181.6100	23.4950		182.2450	108.2675		right
	35	161.2900	22.8600		160.6550	97.7900		left
	36	114.3000	15.2400		115.8875	65.0875		right
	37	155.2575	19.0500		154.6225	91.4400		right
	38	166.6875	21.9075		167.3225	93.3450		right
	39	157.4800	22.2250		157.4800	93.9800		right
##		179.0700	23.1775		183.1975	103.5050		right
##		158.1150	22.2250		160.6550	95.8850	inches	right
	75	178.0000	21.0000		176.0000	98.5000	cm	right
	76	181.6100	20.3200		218.4400	109.0000	cm	right
	77	175.4000	19.6000		211.0000	105.3000	cm	right
	78	161.0000	18.0000		193.0000	96.5000	cm	right
	79	165.0000	18.5000		198.5000	99.0000	cm	right
	80	186.0000	21.0000		224.0000	112.0000	cm	right
##		184.0000	20.5000		221.0000	110.0000	cm	right
	82	159.0000	18.0000		195.0000	97.0000	cm	left
##		185.5000	21.0000		223.0000	111.0000	cm	right
	84	185.0000	21.0000		224.0000	111.0000	cm	right
	85	183.0000	23.0000		183.0000	109.0000	cm	right
	86	166.5000	20.5000		164.0000	99.0000	cm	right
##		157.5000	23.0000		160.0000	90.0000	cm	right
	88	171.5000	22.0000	53.0000	65.0000	107.0000	cm	right
	89	178.0000	23.0000		171.0000	101.0000	cm	right
	90	168.0000	20.0000		166.0000	99.0000	cm	right
##		170.0000	27.0000		174.0000	99.0000	cm	right
	92	178.0000	24.0000		180.5000	104.0000	cm	left
	93	183.0000	25.0000		162.0000	108.0000	cm	right
	94	175.0000	27.0000	56.0000	75.0000	103.0000	cm	right
	95	161.0000	21.0000	52.0000	61.5000	97.0000	cm	right
	96	185.0000	24.0000		192.0000	109.0000	cm	right
	97	175.2600	24.1300		179.7050	97.7900		right
	98	160.0200	NA		157.4800		inches	right
	99	107.9500	NA		104.1400		inches	right
	100	85.0900	NA	49.5300	80.0100		inches	both
		160.0200	NA		160.0200		inches	right
		175.2600	NA		167.6400		inches	left
		165.1000	NA		166.3700		inches	right
		165.1000	NA		161.9250		inches	left
		157.4800	NA		162.5600		inches	right
		182.8800	NA		185.4200		inches	right
		175.2600	23.4950		180.9750	99.0600	cm	right
##	108	165.1000	21.5900	53.3400	162.5600	92.0000	cm	right

шш	100	177 0000	04 7650	EQ 4000	107 0600	00 0000		مد ما مد ندمد
		177.8000	24.7650		187.9600	98.0000	cm	right
	110	NA NA	22.8600	58.4200	NA NA	NA	cm	right
	111	NA NA	27.9400	55.8800	NA	NA NA	cm	right
	112	NA	23.4950	58.4200	NA	NA	cm	right
	113	NA	22.2250	60.3250	NA	NA	cm	right
	114	NA	27.9400	60.9600	NA	NA	cm	right
	115	NA	23.4950	62.2300	NA	NA	cm	right
	116	NA	26.4160	52.0700	NA	NA	cm	right
		187.9600	23.4950		196.8500	NA	cm	Right
##		161.2900	20.3200		158.7500	NA	cm	Left
##		147.3200	21.5900		150.4950	NA	cm	Left
##		142.8750	21.5900		147.3200	NA	cm	Right
##		132.7150	21.5900		134.6200	NA	cm	Right
##		157.4800	21.5900		133.3500	NA	cm	Right
##	123	NA	21.0000		171.0000	NA	cm	Left
##	124	NA	23.0000		172.0000	NA	cm	Left
##		147.3200	22.8600	NA	NA	NA	cm	Left
##		180.5000	21.5000		179.0000	107.5000	cm	Right
		180.3000	25.4000		167.6000	141.0000	cm	right
		163.8000	22.9000		147.5000	123.2000	cm	right
		180.3000	24.1000		163.5000	139.7000	cm	left
		159.0000	22.9000		142.3000	123.2000	cm	right
		181.0000	25.4000		165.0000	151.1000	cm	right
		190.0000	24.0000		173.0000	143.0000	cm	right
		191.1000	26.7000		175.5000	150.5000	cm	right
		180.0000	29.5000		171.0000	140.0000	cm	right
		169.0000	24.0000		158.0000	132.5000	cm	right
		178.0000	29.0000		168.0000	126.5000	cm	right
		143.5000	22.0000		165.0000	103.5000	cm	right
		177.0000	24.0000		175.0000	107.0000	cm	right
		175.0000	21.5000		175.0000	104.0000	cm	right
		175.0000	21.5000		174.0000	103.5000	cm	right
		177.0000	22.0000		181.0000	110.5000	cm	right
		166.0000	20.0000		160.0000	102.0000	cm	right
		174.0000	22.0000		175.0000	102.0000	cm	right
		183.0000	23.0000		172.0000	109.0000	cm	right
	235	93.0000	20.0000	51.0000	90.5000	49.0000	cm	both
		178.0000	23.0000		177.0000	104.5000	cm	left
		151.1300	20.5000		154.0000	94.5000	cm	right
		165.1000	23.0000		176.5300	104.0000	cm	right
		157.4800	20.0000		165.1000	92.5000	cm	right
		174.6250	23.5000		180.3400	105.0000	cm	right
		167.0000	22.0000		171.0000	105.0000	cm	right
		170.0000	24.0000		175.0000	106.0000	cm	right
		154.0000	21.0000		155.0000	94.0000	cm	right
		167.6400	24.0000		177.8000	100.0000	cm	right
		185.0000	25.0000		188.0000	108.0000	cm	right
##	246	172.0000	22.0000	58.0000	170.0000	89.0000	cm	right
##	247	158.7500	22.8600		151.7650	93.9800	in	Right
		172.7200	20.9550		167.6400	104.1400	in	Right
		180.3400	24.1300		187.9600	106.6800	in	Left
		175.5000	24.0000		173.0000	96.0000	cm	Right
##	251	36.0000	6.5000	20.0000	36.0000	27.0000	cm	Right
##	252	177.8000	25.4000	58.4200	177.8000	106.6800	in	Right

##	253	91.4400	16.5100	50.8000	91.4400	68.5800	in	Right
		160.0200	22.8600		152.4000	99.0600	in	Right
	255	91.4400	16.5100	50.8000	91.4400	68.5800	in	Right
		158.7500	22.8600	53.3400	8.8900	99.0600	in	Right
		180.5000	26.5000		181.5000	103.5000	cm	right
##		160.0000	20.0000		157.0000	NA	cm	right
##		175.0000	24.0000		180.0000	NA NA		
##		180.0000	23.0000		185.0000	NA NA	cm	right
##		158.0000	24.5000		161.5000	98.0000	cm	right
##		182.5000	25.0000		186.0000	115.5000	cm	right
##		168.0000	26.0000		167.0000	98.5000	cm	right left
							cm	
##		181.0000	25.5000 22.0000		182.5000	103.0000	cm	right
##		155.0000			154.0000	NA	cm	right
##		176.0000	24.0000		177.0000	NA	cm	right
##		156.2100	20.3200		153.0350	88.9000	in	right
##		177.8000	23.4950		187.9600	104.1400	in	right
##		152.0825	20.9550		149.8600	86.9950	in	right
##		176.9364	20.9550		177.4825	101.8540	in	right
##		161.9250	19.0500		160.6550	95.2500	in	right
##		182.8800	22.8600		186.6900	113.0300	in	right
##		160.0200	21.1582		158.1150	87.6300	in	right
##		168.2750	20.5740		172.0850	106.0450	in	right
##		187.9600	20.3200		191.1350	111.1250	in	right
##		165.1000	20.9550		166.3700	100.9650	in	right
##		173.0000	22.0000		173.0000	100.0000	cm	right
##		167.0000	18.0000		167.0000	102.0000	cm	right
##		157.0000	19.0000		159.0000	94.0000	cm	right
##		158.0000	24.0000		146.0000	93.0000	cm	right
##		162.0000	22.5000		163.0000	98.0000	cm	right
##		168.0000	28.0000		177.0000	97.0000	cm	right
##		151.0000	20.0000		165.0000	91.0000	cm	right
##		149.0000	29.0000		148.0000	88.5000	cm	right
##		159.0000	23.0000		167.0000	90.0000	cm	right
##		162.0000	22.5000		160.5000	91.5000	cm	right
##		173.9900	25.0825		181.6100	104.1400		right
##		170.1800	18.4150		172.7200	101.6000		left
##		177.8000	25.4000		182.8800	107.9500	inches	right
##		152.4000	24.1300		152.4000	86.9950		right
##	321	177.8000	20.3200		182.8800	107.3150		right
		161.9250	19.6850		158.1150	85.0900		right
##	323	162.5600	21.5900		161.2900	95.2500	inches	right
##		180.3400	20.3200		182.8800	109.2200		right
##	325	160.6550	19.0500	55.8800	152.4000	97.7900		right
##		184.1500	20.9550		186.6900	107.9500	inches	right
##		158.0000	22.0000		159.5000	91.5000	cm	right
##		172.0000	24.0000		168.0000	98.5000	cm	right
##	329	190.5000	22.2500		193.0000	113.0000	cm	right
##	330	180.2500	21.5000		185.5000	111.0000	cm	right
##		158.0000	20.5000		166.0000	90.0000	cm	right
##		178.0000	22.0000		174.0000	107.5000	cm	right
##	333	173.0000	20.0000	21.5000	179.0000	104.0000	cm	right
##	334	162.5000	20.3000		165.0000	96.5000	cm	left
##	335	168.0000	20.0000		165.0000	97.0000	cm	left
##	336	464.5152	50.8000	154.9400	480.6442	432.2572	inches	right

				50.000				
		169.0000	22.0000		173.0000	101.0000	cm	right
		158.0000	21.5000		162.0000	92.0000	cm	right
##		137.0000	23.0000		139.0000	85.0000	cm	right
##		162.0000	24.0000		164.0000	93.0000	cm	left
##		160.0000	23.0000		159.0000	95.0000	cm	right
##		171.0000	23.0000		171.5000	101.0000	cm	right
##		140.0000	20.0000		143.0000	83.0000	cm	right
##		154.0000	23.5000		160.0000	96.0000	cm	left
##		148.0000	24.0000		148.0000	93.0000	cm	right
##		148.0000	23.0000		147.0000	92.0000	cm	right
##		182.8800	23.4950		193.0400	107.9500		"right"
##		170.1800	38.1000		158.7500	93.9800	"in"	"right"
##	349	27.3050	20.3200		184.6580	108.7120		"right"
##		174.4980	20.3200		175.2600	105.4100		"right"
##		176.5300	19.0500		184.6580	109.2200		"right"
##		162.5600	33.0200		166.3700	99.0600		"right"
##		177.1650	20.9550		175.8950	106.6800		"right"
##		170.1800	22.8600		171.4500	99.3775		"right"
##		187.4520	22.2250		191.5160	115.0620		"right"
##		172.7200	21.5900		173.0375	104.1400	"in"	"right"
##		175.6000	21.0000		176.2000	109.0000	cm	right
##		175.5000	20.0000		178.0000	107.0000	cm	right
##		176.0000	20.5000		178.0000	109.0000	cm	right
##		158.0000	17.5000		152.7000	94.0000	cm	right
##		169.6000	20.6000		163.0000	100.0000	cm	right
##		165.9000	21.0000		166.5000	95.0000	cm	right
##		168.0000	23.0000		172.0000	95.0000	cm	right
##		168.5000	21.0000		170.0000	103.5000	cm	right
##		186.0000	21.5000		188.8000	114.5000	cm	right
##		170.0000	18.5000		176.0000	104.0000	cm	right
##		168.9000	21.5000		174.0000	100.5000	cm	right
##		181.0000	22.8000		190.5000	108.2000	cm	both
##		160.0000	22.0000		157.5000	94.0000	cm	right
##		173.0000	25.0000		182.0000	104.0000	cm	right
##		163.0000	22.0000		170.0000	97.0000	cm	right
##		185.4000	24.3000		181.6000	109.2000	cm	right
##		163.0000	21.0000		147.3000	101.6000	cm	right
##		167.0000	23.0000		171.0000	100.0000	cm	right
		167.7000	31.0000		168.9000	98.1000	cm	right
		167.7000	30.0000		174.0000	106.7000	cm	right
		160.0200	19.0500		167.6400	98.4250	Inch	right
		148.5900	19.0500		150.6982	90.1700	Inch	right
		165.1000	18.4150		165.1000	101.6000	Inch	left
		175.2600	17.7800		170.1800	104.1400	Inch	right
		172.7200	18.4150		173.3550	92.7100	Inch	left
		172.7200	21.5900		177.8000	89.5350	Inch	right
		177.8000	21.5900		185.4200	86.9950	Inch	left
		152.4000	19.6850		154.9400	91.4400	Inch	right
		153.6700	22.8600		157.4800	96.5200	Inch	left
		167.6400	19.6850		177.8000	99.0600	Inch	right
		167.5000	25.0000		158.0000	102.0000	cm	right
		172.5000	22.5000		174.5000	102.0000	cm	right
		182.5000	23.0000		183.5000	106.0000	cm	left
##	390	189.0000	22.0000	58.0000	185.8000	114.0000	cm	right

		182.0000	23.5000			59.0000	182	.5000	114.0000	cm	right
##	392	180.5000	22.0000			63.0000	177	.5000	111.0000	cm	right
##	393	172.0850	22.8600			59.6900	168	.9100	97.7900	in	right
##	394	157.4800	20.3200			54.6100	152	.4000	92.7100	in	right
##	395	154.9400	21.5900			57.1500	152	.4000	85.0900	in	right
##	396	177.5000	24.0000			60.5000	181	.5000	109.0000	cm	left
##	397	185.0000	23.0000			59.0000	196	.0000	NA	cm	right
##	398	188.0000	22.5000			59.0000	187	.0000	NA	cm	right
##	399	184.0000	24.0000			58.5000	183	.0000	NA	cm	right
##	400	173.0000	22.0000			57.0000	173	.0000	NA	cm	right
##	401	178.0000	24.0000			60.0000	183	.0000	NA	cm	right
##	402	160.0000	23.5000			55.0000	165	.0000	NA	cm	right
##	403	184.5000	24.0000			56.0000	190	.5000	NA	cm	right
##	404	165.0000	23.0000			56.0000	167	.5000	NA	cm	right
##	405	180.5000	21.5000			58.5000	185	.5000	NA	cm	left
##	406	158.0000	23.0000			56.0000	163	.0000	NA	cm	right
##	407	163.8000	20.8000			27.2000	171	.4000	98.5000	cm	left
##	408	167.6000	21.0000			57.7000	165	.8000	101.6000	cm	right
##	409	166.9000	20.8000			57.1000	157	.2260	100.3000	cm	right
##	410	160.2000	21.5900			57.1000	161	.5000	92.7000	cm	left
##	411	189.4000	21.3000			64.1000	175	.1000	106.5000	cm	right
##	412	165.7000	21.7000			55.4000	163	.6000	99.8000	cm	right
##	413	166.6000	20.1000			59.2000	169	.7000	102.4000	cm	right
##	414	176.8000	20.1000			56.4000	175	.3000	105.3000	cm	right
##	415	180.6000	20.5000			59.4000	169	.6000	105.4000	cm	right
##	416	172.2000	19.1000			57.4000	173	.4000	105.6000	cm	right
##	417	188.0000	24.5000			58.5000	156	.5000	113.7500	cm	left
##	418	170.1800	25.4000			57.7850	171	.5000	100.5000	cm	right
##	419	154.9400	20.9550			55.2450	154	.9400	87.6300	cm	right
##	420	164.4650	20.9550			56.1000	161	.2900	101.5000	cm	left
##	421	177.8000	22.8600			58.5000	185	.4200	110.7500	cm	right
##	422	158.7500	18.4150			50.5000	154	.9400	96.0000	cm	right
##	423	133.3500	19.0500			48.7500	133	.3500	82.0000	cm	right
##	424	176.5300	21.5900			58.2500	180	.3400	107.5000	cm	right
##	425	171.4500	20.3200			55.5000	170	.1800	114.0000	cm	right
##	426	162.5600	20.3200			53.0000	165	.1000	98.5000	cm	right
##		eye	eye.color sw	inging	age	gend	der (quality	minu	tes	
##	1	both	blue	right	21		F	10.0	1.500000e	+01	
##	2	both	brown	right	22		M	7.0	2.200000e	+01	
##	3	both	brown	left	23		M	9.0	1.500000e	+01	
##	4	both	blue	right	23		F	8.0	1.500000e	+01	
##	5	left	blue	left	23		F	9.0	1.100000e		
##	6	both	hazel	right	63		M	9.0	1.700000e	+01	
##	7	both	blue	right	59		F	10.0	1.300000e	+01	
##	8	both	brown	right	23		M	8.0	1.900000e	+01	
##	9	right	brown	right	20		F	9.0	1.400000e	+01	
##	10	both	blue	right	26		F	7.0	1.500000e		
##	21	right	blue	right	87	fema	ale	7.0	3.500000e		
##	22	right	blue	left	30	ma	ale	8.0	3.600000e		
##	23	right	blue	left	60	fema	ale	10.0	4.000000e	+01	
##	24	right	brown	right	20	fema	ale	10.0	3.000000e	+01	
	25	left	green	left	47	fema		8.0	3.000000e		
##	26	right	brown	left	22	fema	ale	10.0	3.000000e		
##	27	left	blue	left	26	ma	ale	8.0	1.400000e	+01	

##	28	right	blue	left	27	female	8.0	1.000000e+01
##	29	left	blue	left	26	male	10.0	2.200000e+01
##	30		blue	left	61	female	10.0	1.600000e+01
		right						
##	31	•	blue/green	right	38	male	9.0	3.200000e+01
##	32	right	blue	left	5	female	9.0	1.500000e+01
##	33	left	brown	right	7	female	8.0	1.700000e+01
##	34	left	hazel	right	36	male	9.0	2.000000e+01
##	35	right	green	left	36	female	9.0	1.500000e+01
##	36	right	hazel	left	6	female	10.0	1.200000e+01
##	37	left	brown	right	11	female	10.0	1.200000e+01
##	38	left	brown	right	35	female	10.0	1.400000e+01
##	39	right	blue	right	52	female	7.0	2.200000e+01
##	40	right	green	right	59	male	9.0	1.500000e+01
##	41	left	blue	right	57	female	9.0	1.500000e+01
##	75	right	blue	left	47	male	10.0	2.300000e+01
##	76	right	brown	right	22	male	10.0	1.500000e+01
##	77	right	brown	right	23	male	8.0	2.000000e+01
##	78	right	green	right	20	female	7.0	1.500000e+01
	79	right	brown	right	52	female	7.0	2.000000e+01
##		right	brown	right	61	male	8.0	1.200000e+01
##	81	right	brown	right	25	male	5.0	1.000000e+01
##		both	blue	left	23	female	5.0	1.500000e+01
##	83	${\tt right}$	brown	left	26	male	6.0	1.000000e+01
##	84	right	brown	right	22	male	7.0	1.000000e+01
##	85	left	hazel	right	21	male	10.0	2.450000e+01
##	86	right	blue	right	20	female	10.0	1.000000e+01
##	87	brown	left	right	23	male	10.0	9.000000e+00
##	88	right	brown	right	21	male	5.0	3.000000e+01
##	89	right	blue	right	54	male	9.0	9.000000e+00
##	90	right	hazel	right	61	female	9.0	1.100000e+01
##	91	left	green	right	20	female	7.0	2.000000e+01
##	92	left	green	right	22	male	10.0	1.550000e+01
##	93	right	green	right	23	male	8.0	2.000000e+01
##	94	left	blue	right	25	male	8.0	2.000000e+01
##	95	right	blue	right	57	female	9.0	4.500000e+01
##	96	left	blue	right	57	male	9.0	4.500000e+01
##	97	left	blue	right	35	M	10.0	1.500000e+01
##	98	right	blue	right	32	F	10.0	2.000000e+00
##	99	right	blue	right	4	M	9.0	3.000000e+00
##	100	<na></na>	blue	both	1	F	6.0	1.000000e+01
##	101	left	hazel	right	63	F	10.0	3.000000e+00
##	102	right	blue	left	68	M	10.0	3.000000e+00
##	103	left	blue	right	34	F	10.0	2.000000e+00
##	104	left	brown	right	46	M	10.0	2.000000e+00
##	105	right	blue	right	84	F	10.0	4.000000e+00
##	106	right	blue	right	88	M	10.0	4.000000e+00
##	107	left	blue	right	21	male	9.0	1.900000e+01
##	108	right	green	right	21	female	8.0	1.200000e+01
##	109	right	brown	right	21	male	8.0	1.500000e+01
##	110	right	blue	right	21	male	9.0	5.000000e+00
##	111	right	brown	right	45	female	7.0	6.000000e+00
	112	left	brown	right	38	female	9.0	5.000000e+00
	113	right	brown	right	41	female	10.0	4.000000e+00
	114	right	brown	right	45	male	8.0	8.000000e+00
		-0		-0				

##	115	right	green	right	21	male	9.0	3.000000e+00
##	116	left	brown	right	21	female	8.0	5.000000e+00
##	117	Left	Brown	Left	46	M	7.0	2.000000e+01
##	118	Right	Brown	Right	44	F	7.0	2.300000e+01
##	119	Right	Blue	Right	17	F	6.0	1.900000e+01
##	120	Left	Brown	Left	14	M	6.0	2.000000e+01
##	121	Left	Brown	Left	12	М	6.0	2.500000e+01
##	122	Left	Brown	Left	11	М	6.0	2.200000e+01
##	123	Right	Brown	Right	27	M	7.0	4.000000e+01
##	124	Left	Brown	Right	41	M	7.0	4.500000e+01
##	125	Right	Brown	Left	27	F	7.0	2.200000e+01
##	126	Left	Brown	Left	26	M	9.0	1.500000e+01
##	127	left	blue	right	21	male	9.0	1.000000e+01
##	128	left	blue	right	20	male	9.0	1.000000e+01
##	129	right	blue	right	18	male	8.0	1.000000e+01
##	130	right	blue	right	43	female	8.0	1.000000e+01
##	131	left	blue	right	47	male	8.0	1.000000e+01
##	132	right	blue	right	27	male	6.0	1.000000e+01
##	133	right	hazel	right	24	male	7.0	1.000000e+01
##	134	right	brown	right	23	male	9.0	1.100000e+01
##	135	right	brown	${\tt right}$	24	male	8.0	1.400000e+01
	136	right	green	right	24	male	8.0	1.600000e+01
	227	left	hazel	right	24	female	10.0	1.200000e+01
	228	left	brown	right	27	male	10.0	1.500000e+01
	229	right	brown	right	17	female	10.0	1.300000e+01
	230	right	brown	right	17	female	10.0	1.100000e+01
	231	left	blue	right	17	male	10.0	1.200000e+01
	232	right	hazel	right	51	female	10.0	1.400000e+01
	233	right	brown	right	28	female	10.0	1.200000e+01
	234	right	blue	right	30	male	10.0	1.300000e+01
	235	<na></na>	brown	both	3	female	8.0	1.500000e+01
	236	left	blue	left	19	male	10.0	1.000000e+01 1.000000e+01
	237	right	brown	right	11 17	female female	10.0 10.0	1.000000e+01 1.000000e+01
	238239	right right	brown	right	41	female	10.0	1.000000e+01
	240	right	brown hazel	right right	45	male	10.0	1.000000e+01
	241	right	brown	right	30	female	9.0	1.000000e+01
	242	right	brown	right	33	male	9.0	1.000000e+01
	243	right	brown	right	21	female	9.0	1.000000e+01
	244	right	brown	right	21	female	9.0	1.000000e+01
	245	left	hazel	right	27	male	9.0	1.000000e+01
	246	right	black	right	24	male	9.0	1.000000e+01
	247	Right	Green	Right	31	Female	7.5	1.500000e+01
	248	Right	Hazel	Right	36	Female	8.5	1.000000e+01
	249	Left	Brown	Left	37	Female	8.0	3.000000e+01
	250	Right	Hazel	Right	37	Male	8.0	1.500000e+01
##	251	Right	Brown	Right	67	Female	6.0	1.500000e+01
##	252	Right	Brown	Right	21	Male	7.0	1.000000e+01
##	253	Right	Blue	Right	9	Female	7.0	1.000000e+01
##	254	Left	Hazel	Right	12	Male	7.0	1.000000e+01
##	255	Right	Blue	Right	7	Male	7.0	1.000000e+01
##	256	Right	Blue	Right	13	Female	8.0	2.000000e+01
##	277	left	hazel	right	29	male	10.0	2.200000e+01
##	278	left	hazel	right	57	female	9.0	1.800000e+01

##	279	richt	hazel	rich+	50	male	10.0	1.500000e+01
	280	right		right	24	male	9.0	1.600000e+01
		right	hazel	right			10.0	
	281	_	blue-green	right	23	female		1.400000e+01
	282	left	hazel	left	23	male	10.0	1.300000e+01
	283	left	brown	right	21	male	8.0	2.000000e+01
	284	left	blue	right	56	male	9.0	1.40000e+01
	285	left	brown	right	56	female	9.0	1.500000e+01
	286	right	hazel	right	17	male	9.0	1.600000e+01
	297	right	blue	rigth	28	female	10.0	2.000000e+01
	298	right	brown	right	27	male	10.0	2.400000e+01
	299	right	blue	right	61	female	10.0	2.600000e+01
	300	right	blue	right	61	male	10.0	2.300000e+01
	301	right	brown	right	54	female	10.0	2.000000e+01
##	302	right	hazel	${\tt right}$	55	male	9.0	1.800000e+01
##	303	right	hazel	right	63	female	9.0	2.200000e+01
##	304	right	hazel	right	28	female	9.0	2.100000e+01
##	305	right	hazel	${\tt right}$	27	male	10.0	2.500000e+01
##	306	right	blue	right	36	female	8.0	2.100000e+01
##	307	right	brown	right	23	male	10.0	1.500000e+01
##	308	right	brown	right	25	female	10.0	1.800000e+01
##	309	right	brown	left	50	female	10.0	2.000000e+01
##	310	right	brown	let	94	female	10.0	1.900000e+01
##	311	right	brown	right	72	female	9.0	2.300000e+01
##	312	right	black	right	72	male	9.0	1.500000e+01
##	313	both	brown	leftt	76	female	9.0	1.600000e+01
##	314	right	brown	left	68	female	9.0	1.500000e+01
##	315	both	black	right	75	male	9.0	1.900000e+01
##	316	both	brown	right	77	male	9.0	2.100000e+01
##	317	right	brown	right	27	male	9.0	1.600000e+01
##	318	left	brown	left	58	female	10.0	1.400000e+01
##	319	right	blue	right	52	male	8.0	2.100000e+01
	320	right	blue	right	53	female	10.0	1.900000e+01
##	321	right	hazel	right	60	male	9.0	1.500000e+01
##	322	right	blue	right	61	female	10.0	1.700000e+01
##	323	right	blue	right	68	female	10.0	1.500000e+01
	324	right	brown	right	69	male	7.0	1.900000e+01
	325	right	blue	right	11	male	10.0	2.100000e+01
##	326	right	hazel	right	30	male	10.0	1.200000e+01
	327	right	brown	right	62	f	8.0	2.500000e+01
	328	right	brown	right	68	m	8.0	2.500000e+01
	329	left	blue	right	36	m	8.0	1.000000e+01
	330	right	green	right	42	f	8.0	1.000000e+01
	331	left	brown	right	33	f	6.0	1.500000e+01
	332	left	brown	right	34	m	6.0	1.500000e+01
	333	right	brown	right	36	m	9.0	2.000000e+01
	334	left	brown	right	38	f	8.0	1.000000e+01
	335	left	hazel	left	40	m	8.0	1.500000e+01
	336	right	brown	right	31	m m	7.0	1.000000e+01
	337	both	brown	left	23	male	10.0	9.500000e+01
	338	both	brown	left	23	female	9.0	9.750000e+00
	339	left		left	31	male	8.0	1.325000e+01
	340	left	brown		60	male	7.0	2.700000e+01
	340		brown	right	52			
		right	brown	left		female	7.0	2.500000e+01
##	342	right	blue	left	64	male	8.0	1.950000e+01

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	343	both	brown	left	47	female	8.0	2.600000e+01
	344	both	brown	right	25	male	9.0	2.475000e+01
	345	both	brown	left	22 17	female	7.0	2.500000e+01
	346	right	brown	left		female	10.0	1.700000e+01
	347	"right"	"brown"	"right"	25	"male"	9.0	NA
	348	"both"	"brown"	"right"	26	"male"	8.0	1.700000e+01
	349	"both"	"green"	"right"	27	"female"	8.0	1.500000e+01
	350	"right"	"brown"	"right"	28	"male"	8.0	1.500000e+01
##	351	"right"	"blue"	"right"	58	"female"	9.0	NA
##	352	"right"	"brown"	"right"	26	"female"	8.0	1.700000e+01
	353	"right"	"blue"	"right"	24	"female"	9.0	NA
	354	"left"	"blue"	"right"	28	"male"	9.0	1.850000e+01
	355	"left"	"brown"	"right"	59	"male"	9.0	NA
	356	"right"	"brown"	"right"	28	"female"	9.0	1.850000e+01
	357	right	brown	right	21	female	10.0	1.800000e+01
	358	_	grey-green	right	22	female	9.0	2.000000e+01
	359	right	grey	right	58	female	9.0	1.900000e+01
	360	_	blue-green	right	17	female	9.0	1.800000e+01
	361	•	blue-green	right	51	female	9.0	1.800000e+01
	362	left	blue-grey	right	53	male	9.0	1.900000e+01
	363	left	brown	right	21	female	9.0	2.000000e+01
	364	right	brown	right	55	female	10.0	1.500000e+01
	365	left	blue	right	56	male	10.0	1.600000e+01
	366	right	brown	right	22	male	9.0	2.000000e+01
	367	equal	brown	right	28	female	10.0	1.000000e+01
	368	equal	brown	right	38	male	10.0	1.000000e+01
	369	left	brown	right	28	female	7.0	1.500000e+01
	370	right	green	right	29	male	7.0	1.500000e+01
	371	equal	brown	right	63	female	7.0	1.200000e+01
	372	right	blue	right	32	male	8.0	9.000000e+00
	373	equal	brown	right	29	female	6.0	8.000000e+00
	374	left	brown	right	48	female	7.0	1.000000e+01
	375	equal	brown	right	55	female	7.0	1.000000e+01
	376	right	hazel	right	39	female	6.0	1.000000e+01
	377	right	Brown	right	22	male	10.0	2.400000e+01
	378	left	Brown	right	11	female	9.0	2.000000e+01
	379	left	Brown	left	13	male	9.0	1.700000e+01
	380	left	Brown	right	17	male	8.0	1.600000e+01
	381	right	Brown	left	14	male	10.0	2.700000e+01
	382	left	Brown	right	22	male	9.0	2.600000e+01
	383	left	Brown	left	21	male	10.0	1.600000e+01
	384	right	Brown	right	22	female	10.0	1.900000e+01
	385	left	Blue	left	13	female	8.0	2.200000e+01
	386	left	Brown	right	19	male	10.0	1.500000e+01
	387	left	blue	right	21	male	9.0	8.000000e+00
	388	left	blue	right	25	male	7.0	1.100000e+01
	389	<na></na>	brown	left	25	male	7.0	1.00000e+01
	390	right	grey	right	23	male	8.0	1.200000e+01
	391	right	blue	right	21	male	7.0	1.300000e+01
	392	right	brown	right	20	male	6.0	1.400000e+01
	393	<na></na>	blue	right	55	male	6.0	1.100000e+01
	394	right	green	left	53	female	6.0	1.200000e+01
	395	right	brown	right		non-binary	6.0	1.200000e+01
##	396	right	brown	right	26	male	5.0	1.000000e+01

						_		
	397	right	hazel	right	28	male	9.0	1.600000e+01
	398	right	blue	right	25	male	10.0	1.200000e+01
	399	right	blue	right	24	male	7.0	1.400000e+01
	400	right	hazel	right	50	female	8.0	1.000000e+01
	401	right	blue	right	52	male	8.0	1.100000e+01
	402	right	blue	right	29	female	8.0	1.300000e+01
	403	right	brown	right	21	male	9.0	7.000000e+00
	404	right	brown	right	27	female	10.0	1.000000e+01
	405 406	right	brown	right	32 25	male female	10.0	1.000000e+01 1.200000e+01
	407	right	brown	right left	22	female		-2.209021e+09
	407	right left	blue blue		25	female		-2.209021e+09
	409	left	brown	right right	25	female		-2.209044e+09
	410	right	blue	right	55	female		-2.209024e+09
	411	left	blue	right	55	male		-2.209040e+09
	412	right	brown	right	22	female		-2.209031e+09
	413	left	green	right	22	female		-2.209045e+09
	414	left	brown	right	21	female		-2.209039e+09
	415	right	blue	right	25	female		-2.209042e+09
	416	right	hazel	left	26	female		-2.209038e+09
	417	right	green	left	53	male	9.5	NA
	418	right	blue	both	53	male	10.0	2.000000e+01
	419	right	brown	right	49	female	9.5	1.500000e+01
	420	left	brown	left	20	female	9.5	1.800000e+01
##	421	right	blue	right	40	male	9.5	NA
##	422	right	blue	right	11	female	9.0	NA
##	423	right	blue	right	7	male	9.5	NA
##	424	right	green	right	43	male	8.0	NA
##	425	right	blue	right	42	female	8.0	NA
##	426	right	blue	right	13	female	8.0	NA
##			ethnicity					
	1		white					
##			Hispanic					
##			black					
##			white					
##	5		white					
##			white					
##			white					
##			white					
##			white					
	10		white					
##			white					
	22		white					
	23		white					
	24		laotian					
##		o frai con	white					
## ##		arrical	n american white					
	28		white white					
##			white					
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##	34		white
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##	40		white
##	41		white
##	75		white
##	76		white
##	77		white
##	78		white
##	79		white
##	80		white
##	81		white
##	82		hispanic
##	83		white
##	84		white
##	85		caucasian
##	86		white
##	87		chinese
##	88		asian
##	89		anglo
##	90		caucasian
##	91		caucasian
## ##	92 93		caucasian caucasian
##	94		caucasian
##	95		caucasian
##	96		caucasian
##	97	White	Non-Hispanic
##	98	White	Non-Hispanic
##	99	White	Non-Hispanic
##	100	${\tt White}$	Non-Hispanic
##	101	${\tt White}$	Non-Hispanic
##	102	${\tt White}$	Non-Hispanic
##	103	White	Non-Hispanic
##	104		Non-Hispanic
##	105	White	Non-Hispanic
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## ##	109 110		white white
##	111		white
##	112		white
##	113		white
##	114		white
##	115		white
##	116		hispanic
##	117		White
##	118		Japanese
##	119		Japanese
##	120		White

## 121	White
## 122	White
## 123	White
## 124	Native American
## 125	Filipino
## 126	White
## 127	white
## 128	white
## 129	white
## 130	white
## 131	white
## 132	white
## 133	white
## 134	Filipino
## 135	white
## 136	white
## 227	caucasian
## 228	caucasian
## 229	caucasian
## 230	caucasian
## 231	caucasian
## 232	caucasian
## 233	caucasian
## 234	caucasian
## 235	hispanic
## 236	caucasian
## 237	white
## 238	white
## 239	white
## 240	white
## 241	white
## 242	white
## 243	asian
## 244	white
## 245	latin american
## 246	asian
## 247	White
## 248	White
## 249	White
## 250	White
## 251	White
## 252	Hispanic
## 253	White
## 254	White
## 255	White
## 256	White
## 277	white
## 278	white
## 279	white
## 280	white
## 281	white
## 282	white
## 283	white-filipino
## 284	white

## 285	white
## 286	white
## 297	white
## 298	white
## 299	white
## 300	white
## 301	white
## 302	white
## 303	white
## 304	white
## 305	white
## 306	white
## 307	Asain
## 308	Asain
## 309	Asain
## 310	Asain
## 311	Asain
## 312	Asain
## 313	Asain
## 314	Asain
## 315	Asain
## 316	Asain
## 317	white
## 318	white
## 319	white
## 320	white
## 321	white
## 322	white
## 323	white
## 324	white
## 325	white
## 326	white
## 327	korean
## 328	korean
## 329	white
## 330	white
## 331	korean
## 332	white
## 333	indian
## 334 ## 335	korean
## 336	white
## 337	korean Caucasian/Asian
## 331 ## 338	Asian
## 339	Asian
## 340	Asian
## 340	Asian
## 341 ## 342	Caucasian
## 342	Asian
## 343	Caucasian/Asian
## 344 ## 345	Caucasian/Asian
## 345	Caucasian/Asian
## 340	"caucasian"
## 347	"asian"
π# J40	abidli

## 349	"caucasian"
## 350	"asian/latino"
## 351	"caucasian"
## 352	"asian/latino"
## 353	"caucasian"
## 354	"caucasian"
## 355	"caucasian"
## 356	"caucasian"
## 357	white
## 358	white
## 359	white
## 360	white
## 361	white
## 362	white
## 363	white
## 364	white
## 365	white
## 366	asian
## 367	asian
## 368	white
## 369	asian
## 370	white
## 371	asian
## 372	white
## 373	white
## 374	hispanic
## 375	pacific islander
## 376	hispanic
## 377 ## 378	African American African American
	African American African American
## 379 ## 380	African American
## 381	African American
## 382	Arrican American Asian
## 383	Caucasian
## 384	Caucasian
## 385	African American
## 386	Asian
## 387	white
## 388	white
## 389	latino
## 390	white
## 391	white
## 392	white
## 393	white
## 394	white
## 395	asian
## 396	asian
## 397	white
## 398	white
## 399	white
## 400	white
## 401	white
## 402	native american

##	403	white
##	404	white italian
##	405	japanese italian
##	406	white
##	407	caucasain
##	408	caucasain
##	409	caucasain
##	410	caucasain
##	411	caucasain
##	412	caucasain
##	413	caucasain
##	414	caucasain
##	415	caucasain
##	416	caucasain
##	417	white
##	418	white
##	419	asian
##	420	asian
##	421	white
##	422	white
##	423	white
##	424	white
##	425	white
##	426	white
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possible

Possible ancestr

Possible ancestr

Poss

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## 99
                                                                                     Possible ancestry may
## 100
                                                                                     Possible ancestry may
## 101
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## 125
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```

```
## 127
                                                                         oldest son of 1b83d5da74032b6a75
## 128
                                                                         Middle son of 1b83d5da74032b6a75
## 129
                                                                       Youngest son of 1b83d5da74032b6a75
## 130
                                         Mother of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b6386
## 131
                                           Father of ba092f0aca4ee5d510274c706a8f336a, 6e49f3355a5580b63
## 132
## 133
## 134
## 135
## 136
## 227
                                                                                                  possible
## 228
## 229
                                                                                         possible ancestr
## 230
                                                                                          possible ancestr
## 231
                                                                                                  possible
## 232
## 233
                                                                                                  possible
## 234
## 235 possible ancestry may include: majority Guatemalan, very young so has not established a dominant
                                                                                                  possible
## 237
## 238
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## 281
## 282
## 283
                                                                                                    white:
## 284
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## 301
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```

possible ancestry may include: Taiwanese, possible anc

Ancestry includes: Ancestry includes:

406 ## 407 ## 408

```
## 355
## 356
## 357
                                                                                 white european, I gave a
## 358
                              white european, I gave a 9 on quality because I did not do the measuremen
## 359
                              white european, I gave a 9 on quality because I did not do the measuremen
## 360
                              white european, I gave a 9 on quality because I did not do the measuremen
## 361
                              white european, I gave a 9 on quality because I did not do the measuremen
## 362
                              white european, I gave a 9 on quality because I did not do the measuremen
## 363
                              white european, I gave a 9 on quality because I did not do the measuremen
## 364
                                                                                 white european, I gave a
## 365
                                                                                 white european, I gave a
## 366
                                   vietnamese, I gave a 9 on quality because I did not do the measuremen
## 367
## 368
                                                                                   possible ancestry may
## 369
## 370
## 371
## 372
## 373
## 374
## 375
## 376
## 377
## 378
## 379
## 380
                                                                         possible ancestry may include: E
## 381
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## 401
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## 404
## 405
```

possible ancers

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## 409
## 410
## 411
## 412
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## 415
                                                                                         possible ancerstry ma
## 416
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## 422
## 423
## 424
## 425
##
   426
##
       hand.length hand.width hand.elbow elbow.armpit arm.reach foot.length
##
   1
           16.95000
                       18.15000
                                   34.90000
                                                 22.50000
                                                            188.2000
                                                                         21.65000
##
  2
           18.55000
                       19.70000
                                   45.55000
                                                 26.00000
                                                            223.0000
                                                                         23.00000
## 3
                                                            183.0000
           15.00000
                       14.00000
                                   52.00000
                                                 33.00000
                                                                         20.00000
## 4
                       19.00000
                                                 29.00000
                                                            202.0000
                                                                         23.00000
           17.00000
                                   39.00000
## 5
           20.00000
                       24.00000
                                   43.00000
                                                 28.00000
                                                            231.0000
                                                                         25.00000
## 6
           18.35000
                       20.30000
                                   37.65000
                                                 31.50000
                                                            206.0000
                                                                         25.40000
           17.05000
## 7
                       18.80000
                                   36.45000
                                                 25.00000
                                                            150.1000
                                                                         21.95000
## 8
           17.00000
                       18.50000
                                   36.00000
                                                 24.50000
                                                            192.0000
                                                                         22.00000
           18.00000
## 9
                       14.00000
                                   38.50000
                                                 20.00000
                                                             38.0000
                                                                         26.00000
## 10
           17.00000
                       19.00000
                                   38.70000
                                                 27.70000
                                                            201.1000
                                                                         23.30000
## 21
                                                 30.00000
                                                             52.5000
           17.00000
                       16.30000
                                   40.00000
                                                                         21.80000
## 22
           17.90000
                       18.60000
                                   46.05000
                                                 57.00000
                                                             71.0000
                                                                         24.90000
## 23
           17.20000
                       17.55000
                                                 21.50000
                                                             57.5000
                                                                         22.75000
                                   38.00000
##
   24
           18.35000
                       19.55000
                                   44.35000
                                                 28.00000
                                                             64.9000
                                                                         23.65000
##
  25
                       17.70000
                                                 23.25000
                                                                         22.30000
           17.20000
                                   42.50000
                                                             66.0000
##
   26
                       19.65000
                                                 29.65000
                                                                         24.00000
           18.20000
                                   43.20000
                                                             60.0000
## 27
           18.60000
                       22.00000
                                   47.20000
                                                 32.40000
                                                             66.7000
                                                                         26.20000
## 28
           17.20000
                       18.90000
                                   44.10000
                                                 28.00000
                                                             64.9500
                                                                         23.65000
## 29
           17.15000
                       19.15000
                                   44.50000
                                                 24.00000
                                                             65.0000
                                                                         21.75000
## 30
           16.30000
                       17.10000
                                   40.35000
                                                 24.50000
                                                             56.2000
                                                                         22.15000
## 31
                                                            228.6000
           19.20875
                       21.74875
                                   48.26000
                                                 24.76500
                                                                         28.57500
##
   32
           12.54125
                       13.97000
                                   28.25750
                                                 18.09750
                                                            137.7950
                                                                         16.19250
##
   33
           13.17625
                       15.08125
                                   32.06750
                                                 21.59000
                                                            145.4150
                                                                         18.73250
##
   34
           19.84375
                       22.86000
                                   48.89500
                                                 31.75000
                                                            221.9325
                                                                         26.67000
##
  35
           17.46250
                       19.52625
                                   41.59250
                                                 29.84500
                                                            202.2475
                                                                         22.22500
##
  36
           12.70000
                       13.81125
                                   30.79750
                                                 22.54250
                                                            143.0337
                                                                         18.89125
## 37
           18.25625
                       18.33563
                                   40.79875
                                                 28.49563
                                                            190.8175
                                                                         23.97125
## 38
           18.17687
                       20.95500
                                   43.41813
                                                 31.27375
                                                            190.9762
                                                                         24.92375
##
  39
           16.35125
                       19.12937
                                   42.86250
                                                 29.52750
                                                            202.5650
                                                                         22.54250
##
  40
           20.32000
                       21.27250
                                   48.73625
                                                 31.11500
                                                            224.1550
                                                                         26.03500
##
   41
           17.30375
                       20.47875
                                   43.18000
                                                 29.52750
                                                            201.1362
                                                                         23.81250
##
  75
                       21.75000
                                                 30.50000
                                                                         26.50000
           19.25000
                                   45.50000
                                                            225.7500
## 76
           17.78000
                       22.86000
                                   46.22800
                                                 29.50000
                                                            152.5000
                                                                         25.40000
## 77
                       22.10000
                                   44.65000
                                                 28.00000
                                                            147.3000
                                                                         24.00000
           17.05000
## 78
           16.00000
                       20.00000
                                   41.00000
                                                 26.50000
                                                            135.0000
                                                                         22.50000
```

##	70	16.00000	21.00000	42.00000	26.50000	138.5000	23.00000
##		18.00000	23.00000	47.00000	30.50000	156.0000	26.00000
##		18.00000	23.00000	47.00000	29.50000	154.5000	26.00000
##							
		16.00000	20.00000	41.00000	26.50000	136.0000	23.00000
##		18.00000	23.00000	47.00000	30.50000	156.0000	26.00000
##		18.00000	23.00000	48.00000	30.50000	157.0000	26.00000
##		19.50000	21.25000	40.50000	25.50000	224.7500	28.00000
	86	18.00000	19.00000	40.50000	25.50000	206.0000	23.00000
	87	18.00000	18.00000	39.50000	19.50000	199.5000	23.00000
##	88	8.00000	10.00000	30.00000	23.00000	234.0000	20.00000
##	89	20.00000	22.75000	23.50000	16.00000	223.0000	26.75000
##	90	19.50000	21.00000	41.00000	24.00000	208.0000	25.25000
##	91	17.75000	20.50000	45.00000	21.00000	211.0000	24.00000
	92	18.50000	21.50000	44.25000	29.00000	223.5000	25.75000
	93	21.00000	10.00000	47.00000	71.00000	243.0000	29.00000
##	94	16.50000	10.75000	43.50000	29.00000	120.5000	25.00000
##	95	16.00000	10.00000	38.00000	23.00000	77.7500	13.50000
##	96	21.00000	11.00000	44.50000	30.00000	237.5000	28.50000
##	97	19.49450	21.01850	28.76550	30.48000	219.0750	25.08250
##	98	17.14500	19.05000	NaN	NaN	NaN	NaN
##	99	11.74750	14.28750	NaN	NaN	NaN	NaN
	100	9.20750	11.43000	NaN	NaN	NaN	NaN
##	101	16.51000	18.41500	NaN	NaN	NaN	NaN
##	102	17.78000	20.95500	NaN	NaN	NaN	NaN
##	103	17.14500	20.32000	NaN	NaN	NaN	NaN
##	104	17.78000	21.27250	NaN	NaN	NaN	NaN
##	105	16.51000	18.73250	NaN	NaN	NaN	NaN
##	106	19.05000	21.27250	NaN	NaN	NaN	NaN
##	107	18.87500	20.17500	45.74500	68.58000	71.7550	24.44750
##	108	16.51000	12.70000	40.32250	26.98750	61.5950	22.86000
##	109	19.68500	12.06500	46.35000	25.71750	73.0250	27.62250
##	110	19.30400	14.60500	NaN	NaN	NaN	NaN
##	111	15.24000	15.24000	NaN	NaN	NaN	NaN
##	112	19.05000	17.14500	NaN	NaN	NaN	NaN
##	113	19.05000	17.78000	NaN	NaN	NaN	NaN
##	114	20.32000	15.24000	NaN	NaN	NaN	NaN
##	115	19.68500	15.24000	NaN	NaN	NaN	NaN
##	116	16.51000	13.97000	NaN	NaN	NaN	NaN
##	117	20.32000	24.13000	45.08500	33.02000	238.7600	29.21000
##	118	17.78000	20.32000	38.10000	26.67000	205.7400	22.86000
##	119	16.51000	19.05000	37.46500	22.86000	186.0550	22.86000
##	120	15.87500	17.14500	34.29000	17.14500	184.1500	21.59000
##	121	13.97000	15.87500	31.75000	22.86000	170.1800	20.32000
##	122	14.60500	15.87500	30.48000	22.86000	163.1950	20.32000
##	123	18.50000	21.50000	40.50000	NaN	218.0000	28.00000
##	124	19.50000	24.00000	49.50000	NaN	230.0000	29.00000
##	125	13.97000	15.25000	35.56000	20.32000	177.8000	21.59000
##	126	18.75000	21.25000	45.00000	26.00000	163.5000	26.75000
##	127	18.50000	NaN	47.95000	28.90000	66.5500	24.80000
##	128	17.80000	NaN	43.20000	23.85000	61.6000	25.40000
##	129	19.10000	NaN	47.00000	26.35000	63.2000	30.50000
	130	17.10000	NaN	42.50000	22.90000	61.3000	24.25000
	131	19.70000	NaN	48.90000	25.40000	66.9500	28.25000
##	132	21.50000	NaN	48.00000	29.00000	NaN	30.00000

	133	19.70000	NaN	50.50000	32.70000	NaN	27.00000
	134	18.75000	NaN	52.25000	32.50000	66.0000	26.00000
	135	18.00000	NaN	46.25000	26.00000	59.2500	24.50000
	136	17.50000	NaN	44.00000	29.00000	64.2500	25.50000
##	227	17.00000	19.00000	38.50000	26.50000	208.5000	23.75000
##	228	19.00000	20.75000	40.50000	22.25000	214.5000	27.50000
##	229	19.25000	19.25000	40.25000	23.75000	217.7500	25.75000
##	230	19.00000	18.75000	41.50000	25.50000	218.2500	25.00000
##	231	20.25000	24.00000	49.25000	28.50000	234.2500	30.00000
##	232	18.75000	19.50000	40.25000	32.25000	204.2500	27.25000
##	233	19.00000	19.50000	43.75000	22.75000	222.7500	24.25000
##	234	19.00000	20.25000	43.50000	21.00000	230.0000	26.75000
##	235	12.25000	13.25000	25.25000	10.00000	107.2500	14.75000
##	236	20.00000	21.25000	45.25000	23.50000	221.2500	25.25000
##	237	15.50000	18.50000	42.50000	23.50000	199.2312	23.50000
##	238	18.75000	19.50000	47.25000	24.50000	214.3125	26.50000
##	239	16.50000	20.50000	43.00000	25.50000	202.2475	23.50000
##	240	19.50000	23.50000	49.50000	23.50000	230.1875	26.50000
##	241	20.00000	20.00000	45.00000	31.00000	212.0000	26.00000
##	242	21.00000	22.00000	46.00000	31.00000	218.0000	27.00000
##	243	16.60000	17.00000	39.65000	21.05000	195.3500	23.35000
##	244	18.00000	20.00000	45.50000	27.00000	220.3450	35.50000
##	245	20.00000	23.75000	52.00000	27.00000	228.0000	30.00000
##	246	17.00000	7.00000	38.00000	18.00000	207.0000	23.00000
##	247	16.82750	17.14500	37.78250	16.51000	201.6125	24.13000
##	248	18.41500	9.20750	43.18000	22.86000	142.2400	23.17750
##	249	20.32000	20.00250	44.45000	23.49500	149.8600	24.44750
##	250	18.40000	20.75000	46.00000	34.50000	146.5000	24.15000
##	251	5.00000	5.50000	11.25000	6.00000	57.0000	7.00000
##	252	20.32000	25.40000	48.26000	30.48000	228.6000	25.40000
	253	12.70000	13.97000	28.57500	15.24000	144.7800	17.78000
	254	20.32000	20.32000	28.57500	26.03500	182.8800	24.13000
##	255	12.70000	13.97000	28.57500	15.24000	144.7800	17.78000
	256	17.78000	20.32000	42.54500	29.21000	67.3100	25.40000
	277	21.50000	24.25000	47.00000	28.00000	233.5000	28.50000
##	278	18.00000	20.50000	39.50000	28.00000	206.0000	25.25000
	279	24.00000	26.50000	43.00000	28.00000	224.7500	28.00000
##	280	20.50000	25.00000	44.50000	30.50000	233.0000	28.00000
	281	16.50000	20.00000	39.00000	24.00000	201.0000	23.00000
	282	19.00000	21.00000	45.50000	25.50000	239.5000	26.00000
	283	19.00000	21.75000	45.00000	24.00000	215.0000	25.00000
	284	22.00000	25.00000	45.50000	28.50000	232.0000	28.50000
	285	17.50000	19.25000	37.00000	25.00000	198.0000	24.50000
	286	22.00000	23.50000	45.00000	26.75000	232.2500	27.00000
	297	16.51000	16.82750	37.46500	24.44750	194.3100	21.79320
	298	18.83410	20.32000	46.99000	33.43910	225.5838	27.07640
	299	18.98650	19.45640	41.27500	25.08250	191.9732	21.99640
	300	20.95500	22.98700	46.26610	33.75660	223.0438	25.11425
	301	18.41500	20.95500	44.13250	32.38500	203.2000	24.13000
	302	19.05000	20.00250	47.94250	34.29000	234.6325	26.03500
	303	17.78000	18.51660	40.76700	23.17750	203.9366	22.86000
	304	17.78000	19.72945	43.05300	28.57500	207.9943	24.33320
	305	20.00250	21.59000	51.11750	38.10000	240.3475	27.62250
	306	17.78000	19.05000	40.00500	24.76500	209.5500	22.54250
							01200

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	307		20.00000	43.00000	22.00000	216.5000	26.00000
	308	18.00000	19.75000	42.00000	22.50000	206.7500	25.00000
	309	16.50000	18.50000	39.00000	28.50000	196.5000	23.00000
	310	17.00000	16.50000	39.50000	20.00000	192.0000	24.00000
##	311	18.50000	19.50000	42.00000	24.00000	203.5000	24.00000
##	312	19.00000	20.25000	43.75000	21.50000	214.0000	25.00000
##	313	18.00000	18.75000	40.50000	21.00000	194.5000	24.00000
##	314	16.50000	19.50000	37.75000	19.50000	181.5000	22.50000
##	315	16.75000	19.75000	43.00000	21.50000	196.0000	22.50000
	316	17.75000	19.50000	23.50000	20.50000	201.0000	24.00000
	317	18.89125	21.74875	45.87875	33.02000	225.4250	25.40000
	318	16.51000	20.32000	40.00500	24.76500	218.4400	23.49500
	319	17.78000	20.00250	43.18000	27.94000	226.0600	26.67000
	320	15.87500	17.78000	37.46500	20.32000	197.2818	21.59000
	321						
		223.20250	18.09750	45.72000	24.76500	220.9800	25.08250
	322	17.46250	16.19250	38.73500	24.76500	194.9450	23.81250
	323	17.78000	18.09750	40.32250	20.63750	190.5000	24.44750
	324	18.41500	20.32000	41.59250	27.30500	207.0100	25.71750
	325	17.78000	17.78000	41.27500	27.94000	204.4700	24.76500
	326	19.05000	20.32000	49.21250	34.29000	237.1725	28.25750
##	327	17.00000	19.50000	39.50000	23.50000	199.5000	21.75000
##	328	19.50000	20.50000	41.75000	25.00000	211.5000	25.25000
##	329	21.00000	22.25000	51.12500	36.50000	244.5000	28.37500
##	330	19.87500	21.62500	46.75000	28.75000	234.3750	26.75000
##	331	16.75000	19.50000	40.50000	21.50000	198.5000	23.50000
##	332	17.50000	20.50000	44.50000	25.75000	234.0000	23.50000
##	333	18.25000	19.50000	46.00000	30.50000	84.0000	26.50000
	334	17.40000	17.80000	43.00000	28.50000	204.2500	22.30000
	335	18.00000	20.00000	43.50000	31.12500	218.4500	24.42500
	336	50.16500	53.34000	120.65000	57.78500	579.0311	64.77000
	337	19.50000	21.50000	45.00000	22.50000	205.0000	26.00000
	338	18.00000	18.50000	41.00000	23.00000	195.0000	23.25000
	339						22.00000
		17.50000	16.00000	33.50000	20.50000	172.0000	
	340	20.25000	19.50000	40.50000	20.50000	196.5000	23.75000
	341	19.00000	19.00000	39.50000	20.50000	189.5000	23.50000
	342	19.00000	22.00000	43.00000	20.00000	212.5000	26.00000
##	343	17.00000	18.50000	37.25000	20.50000	179.5000	21.00000
##	344	19.25000	21.00000	41.50000	20.25000	197.0000	24.75000
	345	17.00000	17.00000	35.50000	19.00000	184.0000	22.75000
	346	17.00000	16.50000	37.00000	20.00000	181.5000	23.00000
##	347	19.05000	25.40000	49.21250	21.90750	234.6325	27.94000
##	348	17.46250	19.36750	40.64000	25.40000	199.7456	23.81250
##	349	19.93900	19.93900	44.95800	29.21000	228.0920	26.92400
##	350	18.66900	19.93900	41.02100	25.78100	218.4400	26.03500
##	351	19.93900	22.60600	45.97400	28.70200	228.0920	26.92400
##	352	19.05000	21.27250	44.45000	26.98750	201.9300	23.17750
##	353	18.41500	21.59000	44.76750	35.56000	224.4725	23.49500
##	354	18.41500	20.95500	41.91000	20.32000	208.2800	24.76500
	355	20.82800	25.40000	45.97400	26.79700	236.0930	29.59100
	356	18.41500	20.32000	43.18000	22.22500	215.9000	23.17750
	357	18.40000	20.85000	47.15000	31.50000	222.0000	26.35000
	358	19.90000	20.35000	41.85000	30.50000	225.5000	25.50000
	359	20.05000	22.00000	44.60000	34.00000	227.0000	26.55000
	360	15.85000	17.65000	39.60000	27.80000	194.8500	21.55000
##	300	13.00000	17.00000	39.00000	21.00000	194.0000	21.00000

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	361	17.00000	19.65000	42.75000	29.10000	209.6500	24.20000
	362	17.80000	19.90000	43.85000	30.00000	201.0000	24.20000
	363	17.00000	20.05000	44.20000	30.00000	216.7500	24.40000
##	364	18.90000	21.25000	45.45000	31.75000	213.0000	25.75000
##	365	20.00000	22.60000	50.60000	34.75000	237.5000	28.25000
##	366	19.00000	21.50000	40.00000	21.25000	218.5000	26.00000
##	367	19.00000	21.90000	44.50000	25.65000	208.9000	24.30000
##	368	19.70000	21.60000	47.60000	26.70000	230.9500	26.70000
##	369	17.20000	19.50000	35.90000	26.00000	197.9500	22.00000
	370	18.90000	21.10000	41.50000	25.40000	212.0000	25.00000
	371	17.10000	20.30000	41.50000	24.15000	207.2000	24.15000
	372	18.40000	20.30000	45.45000	24.75000	226.5500	30.50000
	373	15.00000	18.00000	39.15000	21.10000	200.4500	22.15000
	374	18.00000	22.00000	40.50000	24.50000	213.0000	26.50000
	375	21.20000	22.10000	46.55000	20.30000	212.5000	25.85000
	376	17.15000	20.30000	41.95000	35.55000	212.2000	27.50000
	377	17.78000	19.05000	43.18000	23.49500	205.7400	26.22550
	378	15.97660	15.24000	38.73500	23.69820	196.8500	22.22500
	379	17.78000	16.82750	43.49750	27.94000	212.0900	24.13000
	380	17.14500	15.24000	42.54500	25.40000	224.7900	25.40000
	381	20.00250	21.90750	46.67250	36.51250	199.0725	26.35250
	382	21.59000	22.22500	46.03750	38.10000	200.9775	26.67000
##	383	22.22500	22.86000	47.30750	40.64000	207.3275	27.94000
##	384	15.87500	18.09750	38.10000	21.90750	194.3100	21.90750
##	385	16.51000	15.24000	39.37000	34.29000	152.4000	19.68500
##	386	18.41500	19.68500	45.72000	24.13000	213.3600	26.67000
##	387	19.50000	22.00000	38.50000	38.50000	211.0000	24.00000
##	388	20.00000	20.15000	41.75000	24.75000	218.2500	25.25000
##	389	19.75000	22.50000	43.00000	22.75000	221.7500	26.00000
	390	19.75000	22.45000	45.40000	31.00000	239.0000	26.30000
	391	20.40000	21.90000	46.50000	26.75000	229.7500	26.05000
	392	19.70000	23.00000	44.25000	26.00000	226.0000	26.60000
	393	18.41500	22.86000	45.72000	23.49500	208.9150	26.98750
	394	17.78000	19.05000	40.64000	19.05000	194.9450	22.86000
	395	18.41500	17.46250	41.27500	24.76500	187.3250	21.59000
##	396	19.35000	19.10000	41.75000	26.00000	221.7500	25.50000
	397	19.00000	24.00000	49.00000	23.00000	244.0000	27.00000
##	398	19.50000	20.50000	46.50000	22.00000	240.0000	26.00000
	399	21.00000	22.50000	47.50000	25.00000	236.0000	26.00000
	400	17.00000	21.00000	43.00000	21.00000	216.0000	24.00000
	401	21.00000	24.00000	45.00000	20.50000	223.5000	27.00000
	402	17.25000	21.25000	40.75000	21.25000	207.0000	23.25000
	403	20.00000	20.00000	NaN	29.00000	236.0000	28.00000
##	404	18.00000	18.00000	43.00000	20.50000	206.0000	23.75000
##	405	19.00000	22.00000	46.00000	25.50000	228.5000	26.50000
##	406	17.00000	19.00000	40.00000	20.00000	210.0000	23.00000
##	407	17.35000	21.80000	44.80000	28.15000	209.7500	22.65000
##	408	17.35000	19.90000	41.80000	30.35000	206.0000	21.85000
##	409	16.85000	16.95000	39.45000	23.55000	198.3500	22.15000
	410	17.75000	19.95000	42.80000	26.55000	199.6500	38.75000
	411	19.30000	23.20000	45.10000	36.55000	222.3500	28.90000
	412	15.25000	19.65000	40.75000	29.25000	203.9000	21.75000
	413	16.45000	18.20000	41.70000	29.95000	207.7000	24.15000
##	414	16.65000	18.95000	44.20000	32.30000	211.2500	25.65000

##	415	175.20000	21.35000	41.90000	32.05000	216.0500	25.25000
##	416	17.60000	17.85000	43.25000	30.05000	210.2000	24.90000
##	417	20.25000	22.10000	44.75000	22.75000	232.5000	28.75000
##	418	18.75000	19.50000	46.12500	26.75000	218.4400	22.25000
	419	19.59250	19.84250	40.82000	22.62500	200.9775	24.38400
	420	18.57375	18.89125	43.18000	19.36750	203.0412	21.59000
	421	20.00250	22.38375	44.60875	26.19375	230.6637	27.62250
	422	16.98625	19.05000	39.68750	22.86000	207.9625	23.97125
	423	15.24000	17.30375	33.02000	17.78000	167.6400	21.11375
##	424	19.68500	22.86000	42.54500	28.57500	227.3300	25.40000
	425	17.78000			28.57500		
			18.09750	38.73500		219.0750	24.13000
	426	17.46250	18.73250	38.73500	28.25750	212.7250	21.59000
##		floor.kneepit	_	_	=	-	
##		37.50000	87.75000	123.5000	cm	W	f
##			102.25000	140.7500	cm	h	m
	3		102.00000	139.0000	cm	b	m
##	4	39.00000	88.00000	127.0000	cm	W	f
##	5	42.00000	99.00000	144.0000	cm	W	f
	6	42.25000	96.00000	131.3000	cm	W	m
##	7	38.50000	89.50000	122.0000	cm	W	f
##	8	38.50000	88.00000	123.0000	cm	W	m
##	9	45.00000	96.00000	135.0000	cm	W	f
##	10	38.50000	88.00000	127.0000	cm	W	f
##	21	40.90000	88.90000	116.5000	cm	W	f
##	22	51.25000	105.00000	143.8500	cm	W	m
##	23	41.95000	90.15000	118.8500	cm	W	f
##	24	46.50000	103.35000	127.5000	cm	lao	f
##	25	43.60000	99.50000	126.0000	cm	W	f
##	26	45.45000	92.15000	122.5000	cm	Ъ	f
##	27	45.25000	102.45000	141.5000	cm	W	m
##		44.90000	95.25000	132.0000	cm	W	f
##	29	45.85000	101.40000	130.1500	cm	W	m
##		41.00000	95.60000	119.9000	cm	W	f
##			104.45750	146.6850	in	W	m
##		32.86125	65.08750	88.9000	in	w	f
##		31.59125	68.89750	90.1700	in	w	f
##			108.42625	144.6213	in	w	m
##		43.49750	97.15500	131.1275	in		f
##		30.79750	67.78625	89.8525		W	f
		49.53000			in	W	f
##			93.34500	125.4125	in	W	f
##		44.29125	95.56750	138.7475	in	W	
##		43.33875	93.34500	128.2700	in	W	f
##			106.83875	145.7325	in	W	m
##		43.33875	95.72625	132.3975	in	W	f
##		43.25000	93.75000	135.0000	cm	W	m
##		45.66000	99.03000	135.9500	cm	W	m
	77	44.00000	95.65000	131.2500	cm	W	m
##		40.50000	88.00000	120.0000	cm	W	f
	79	41.50000	90.00000	123.0000	cm	W	f
##			101.00000	139.0000	cm	W	m
##			100.00000	138.0000	cm	W	m
##		41.00000	88.50000	122.0000	cm	h	f
##	83	47.00000	101.00000	139.0000	cm	W	m
##	84	47.00000	101.50000	139.0000	cm	W	m

##	85	46.50000	106.00000	137.0000	cm	W	m
##	86	44.25000	100.75000	135.2500	cm	W	f
##	87	39.50000	82.25000	121.5000	cm	С	m
##	88	43.00000	104.00000	139.0000	cm	a	m
##	89	49.00000	100.50000	129.5000	cm	W	m
##	90	45.00000	102.00000	128.0000	cm	W	f
##	91	42.00000	94.00000	130.0000	cm	W	f
##	92	49.00000	100.50000	137.0000	cm	W	m
##	93	56.00000	103.00000	141.0000	cm	W	m
##	94	51.00000	92.50000	139.5000	cm	W	m
##	95	42.00000	84.75000	124.7500	cm	W	f
##	96	53.00000	113.00000	144.0000	cm	W	m
##	97	45.72000	93.98000	132.0800	in	W	m
##	98	NaN	NaN	NaN	in	W	f
##	99	NaN	NaN	NaN	in	W	m
##	100	NaN	NaN	NaN	in	W	f
##	101	NaN	NaN	NaN	in	W	f
##	102	NaN	NaN	NaN	in	W	m
##	103	NaN	NaN	NaN	in	W	f
##	104	NaN	NaN	NaN	in	W	m
##	105	NaN	NaN	NaN	in	W	f
##	106	NaN	NaN	NaN	in	W	m
##	107	48.26000	97.15500	133.3500	cm	W	m
##	108		101.28250	124.4600	cm	W	f
##	109	49.53000	98.10750	137.7950	cm	W	m
##	110	NaN	NaN	NaN	cm	W	m
##	111	NaN	NaN	NaN	cm	W	f
##	112	NaN	NaN	NaN	cm	W	f
##	113	NaN	NaN	NaN	cm	W	f
##	114	NaN	NaN	NaN	cm	W	m
	115	NaN	NaN	NaN	cm	W	m
	116	NaN	NaN	NaN	cm	h	f
	117		104.14000	152.4000	cm	W	m
	118	38.10000	92.07500	129.0000	cm	j	f
	119	34.92500	90.17000	118.1100	CM	j	f
	120	37.46500	90.17000	112.3950	cm	W	m
	121	35.56000	79.37500	106.0450	cm	W	m
	122	33.02000	80.01000	104.1400	cm	W	m
	123	50.00000	NaN	135.0000	cm	W	m
	124	54.00000	NaN	143.0000	cm	nat	m
	125	38.10000	78.74000	111.7600	cm	f	f
	126	43.50000	98.75000	148.5000	cm	W	m
	127	53.30000	NaN	120.6500	cm	W	m
	128	44.80000	NaN	106.0500	cm	W	m
	129	49.20000	NaN	118.7500	cm	W	m
	130	41.60000	NaN	104.1500	cm	W	f
	131	54.60000	NaN NaN	125.7500	cm	W	m
	132	50.00000	NaN NaN	143.0000	cm	W	m
	133	47.80000	NaN NaN	123.8500	cm	W -c	m
	134	51.00000	NaN N-N	120.0000	cm	f	m
	135	47.25000	NaN NaN	113.2500	cm	W	m
	136	44.25000	NaN	113.2500	cm	₩	m _
	227		100.50000	126.2500	cm	W	f
##	228	49.00000	101.50000	137.7500	cm	W	m

##	229	47.25000	99.75000	135.0000	cm	W	f
##	230	45.75000	100.50000	136.0000	cm	W	f
##	231	49.50000	109.75000	151.0000	cm	W	m
##	232	49.50000	100.50000	131.7500	cm	W	f
##	233	48.50000	103.00000	132.2500	cm	W	f
##	234	49.75000	95.50000	137.7500	cm	W	m
##	235	23.50000	46.75000	69.5000	cm	h	f
##	236	50.50000	103.50000	144.2500	cm	W	m
##	237	42.00000	93.50000	115.5000	cm	W	f
##	238	46.00000	103.00000	126.0000	cm	W	f
##	239	40.00000	94.00000	123.5000	cm	W	f
##	240	49.00000	103.00000	133.5000	cm	W	m
##	241	50.00000	102.00000	130.0000	cm	W	f
##	242	50.00000	105.00000	133.0000	cm	W	m
##	243	40.40000	96.15000	122.6000	cm	a	f
##	244	74.00000	101.00000	133.0000	cm	W	f
##	245	58.00000	104.00000	147.0000	cm	1	m
##	246	48.00000	35.00000	106.0000	cm	a	m
##	247	39.37000	88.90000	119.0625	in	W	f
##	248	45.72000	88.90000	137.1600	in	W	f
##	249	44.45000	104.14000	139.7000	in	W	f
##	250	40.25000	100.00000	134.5000	cm	W	m
##	251	13.00000	24.50000	35.2500	cm	W	f
##	252	50.80000	99.06000	127.0000	in	h	m
##	253	33.02000	62.23000	89.5350	in	W	f
##	254	45.72000	93.98000	127.0000	in	W	m
##	255	33.02000	62.23000	89.5350	in	W	m
##	256	53.34000	57.15000	127.6350	in	W	f
##	277	44.00000	100.50000	142.5000	cm	W	m
##	278	40.50000	96.50000	134.5000	cm	W	f
##	279	44.50000	104.25000	142.0000	cm	W	m
##	280	47.00000	101.50000	145.0000	cm	W	m
##	281	41.50000	97.25000	127.5000	cm	W	f
##	282	48.50000	108.00000	144.0000	cm	W	m
##	283	43.50000	95.50000	135.7500	cm	wf	m
##	284	43.00000	95.50000	142.0000	cm	W	m
##	285	39.00000	94.50000	126.0000	cm	W	f
##	286	44.00000	98.00000	138.0000	cm	W	m
##	297	37.35070	88.58250	123.3932	in	W	f
##	298	50.05070	102.33660	135.8900	in	W	m
##	299	41.37660	86.48700	123.7107	in	W	f
##	300	45.24375	100.11410	136.3663	in	W	m
##	301	43.18000	93.98000	130.8100	in	W	f
##	302		107.63250	154.3050	in	W	m
##	303	43.18000	86.80450	129.0637	in	W	f
##	304		102.85730	135.0645	in	W	f
##	305		104.77500	146.3675	in	W	m
##	306	42.86250	96.08820	130.8100	in	W	f
##	307	47.75000	96.00000	129.0000	cm	a	m
##	308	48.50000	94.75000	126.5000	cm	a	f
##	309	43.50000	88.50000	119.5000	cm	a	f
	310	48.00000	89.50000	110.5000	cm	a	f
	311	49.50000	96.00000	126.5000	cm	a	f
	312	47.00000	93.50000	130.0000	cm	a	m

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	313	47.00000	95.75000	121.0000	cm	a	f
##	314	45.25000	93.25000	122.0000	cm	a	f
##	315	47.50000	93.00000	122.0000	cm	a	m
##	316	49.00000	98.00000	131.5000	cm	a	m
##	317	42.22750	89.53500	150.8125	in	W	m
##	318	42.86250	96.52000	130.8100	in	W	f
##	319	45.72000	105.41000	132.0800	in	W	m
##	320	38.10000	87.63000	116.8400	in	W	f
##	321	42.22750	103.82250	141.6050	in	W	m
##	322	41.91000	79.69250	115.5700	in	W	f
##	323	41.27500	90.17000	124.4600	in	W	f
##	324		102.23500	137.1600	in	W	m
##	325	48.26000	96.52000	116.8400	in	W	m
##	326		104.77500	150.1775	in	W	m
##	327	35.75000	92.50000	123.0000	cm	k	f
##	328		100.00000	135.5000	cm	k	m
##	329		105.12500	156.5000			
					cm	W	m
##	330		109.00000 84.75000	149.2500	cm	W 1-	f f
##	331	40.25000		130.0000	CM	k	
##	332		102.50000	143.5000	CM	W	m
##	333		100.75000	127.0000	cm	i	m
##	334	40.00000	96.50000	132.7500	cm	k	f
##	335	39.25000	91.50000	133.8750	CM	W	m
##	336	116.20500		347.3450	in	k	m
##	337	45.50000	97.00000	131.5000	cm	ca	m
##	338	42.00000	88.00000	125.5000	cm	a	f
##	339	38.00000	78.50000	108.0000	cm	a	m
##	340	44.00000	86.00000	119.0000	cm	a	m
##	341	40.50000	83.50000	122.5000	cm	a	f
##	342	49.00000	96.50000	134.5000	cm	W	m
##	343	43.00000	79.00000	111.5000	cm	a	f
##	344	45.00000	89.50000	120.5000	cm	ca	m
##	345	42.25000	89.00000	117.5000	cm	ca	f
##	346	39.50000	87.50000	112.0000	cm	ca	f
##	347	53.34000	99.06000	144.1450	in	W	m
##	348	42.22750	90.17000	125.7300	in	a	m
##	349	47.62500	105.41000	148.3360	in	W	f
##	350	44.25950	105.53700	134.8740	in	al	m
##	351	50.03800	107.18800	142.7480	in	W	f
##	352	44.13250	91.75750	127.0000	in	al	f
##	353	51.43500	100.01250	143.5100	in	W	f
##	354	45.08500	92.07500	127.6350	in	W	m
##	355	47.75200	112.39500	153.9240	in	W	m
##	356	46.99000	98.74250	132.0800	in	W	f
##	357	45.10000	94.75000	141.0000	cm	W	f
##	358	45.00000	93.00000	142.1000	cm	W	f
##	359	48.05000	94.00000	143.0000	cm	W	f
##	360	39.25000	82.00000	119.2500	cm	W	f
##	361	41.25000	89.00000	126.4500	cm	W	f
##	362	42.00000	84.10000	122.6000	cm	W	m
	363	49.00000	87.90000	104.1500	cm	W	f
	364	41.75000	91.75000	132.5000	cm	W	f
	365	47.50000	96.25000	147.0000	cm	W	m
	366	42.00000	93.00000	130.0000	cm	a a	m
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	367	46.05000	96.75000	127.6000	CM	a	f
	368		103.20000	136.2500	cm	W	m
##	369	41.00000	91.00000	119.7000	cm	a	f
##	370	44.35000	98.50000	131.5000	cm	W	m
##	371	43.05000	92.10000	129.1000	cm	a	f
##	372	73.55000	101.60000	144.1500	cm	W	m
##	373	45.90000	91.45000	132.0000	cm	W	f
##	374	43.00000	92.50000	126.2500	cm	h	f
##	375	50.50000	94.55000	133.5000	cm	pi	f
##	376	45.70000	94.00000	131.4500	cm	h	f
##	377	42.22750	88.90000	141.6050	in	Ъ	m
##	378	40.64000	83.82000	114.3000	in	b	f
##	379	48.99660	91.44000	129.5400	in	b	m
##	380	48.26000	96.52000	123.1900	in	Ъ	m
##	381	44.76750	87.63000	130.4925	in	Ъ	m
##	382	44.76750	82.55000	127.9525	in	a	m
##	383	45.72000	84.77250	130.4925	in	¥	m
##	384	40.32250	84.77250	130.8100	in	₩	f
##	385	46.35500	90.17000	115.5700	in	b	f
##	386	41.27500	87.63000	139.7000	in	a	m
##	387	46.50000	95.75000	127.0000	cm	W	m
##	388		101.25000	133.0000	cm	W	m
##	389		100.00000	144.7500	cm	u 1	m
##	390		110.50000	155.5000		W	
##	391		113.00000	146.5000	cm		m m
##	392		107.25000	144.0000	cm	W	m m
##	393	48.26000	97.15500	137.1600	cm	W	m m
	394				in	₩	m f
##		44.45000	88.90000	124.4600	in	W	
##	395	40.64000	83.18500	123.8250	in	a	0
##	396		106.50000	137.5000	CM	a	m
##	397		103.00000	144.0000	cm	W	m
##	398		101.00000	145.0000	cm	W	m
##	399		105.50000	141.0000	cm	W	m
	400	45.00000	99.00000	143.5000	cm	W	f
	401		101.00000	147.0000	cm	W	m
	402	40.50000	95.50000	122.0000	cm	nat	f
##	403	47.00000	95.75000	146.0000	cm	W	m
	404	43.00000	99.00000	127.0000	cm	wi	f
	405	53.50000	99.25000	137.0000	cm	ji	m
	406	43.00000	96.00000	120.0000	cm	W	f
	407	41.85000	91.25000	123.3500	cm	W	f
##	408	42.25000	99.85000	127.2000	cm	W	f
##	409	52.05000	92.05000	126.3000	cm	W	f
##	410	24.55000	96.75000	122.8000	cm	W	f
##	411	57.60000	101.10000	144.5000	cm	W	m
##	412	40.95000	98.60000	124.9000	cm	W	f
##	413	49.90000	90.65000	130.3000	cm	W	f
##	414	50.80000	87.80000	131.7500	cm	W	f
##	415	54.35000	96.70000	139.9500	cm	W	f
##	416	47.80000	91.70000	131.0500	cm	W	f
##	417	46.25000	112.50000	144.7500	cm	W	m
##	418	45.61000	92.75000	140.5000	cm	W	m
##	419	40.88250	93.24000	125.2300	cm	a	f
	420	41.27500	94.79000	123.1900	cm	a	f

	421	45.08500	110.49000	134.6200	cm	W	m
	422	40.64000	99.06000	121.2850	cm	W	f
##	423	36.19500	78.74000	99.3775	cm	W	m
##	424	41.91000	101.28250	133.9850	cm	W	m
##	425	43.18000	95.88500	133.9850	cm	W	f
##	426	39.37000	95.25000	126.6825	cm	W	f
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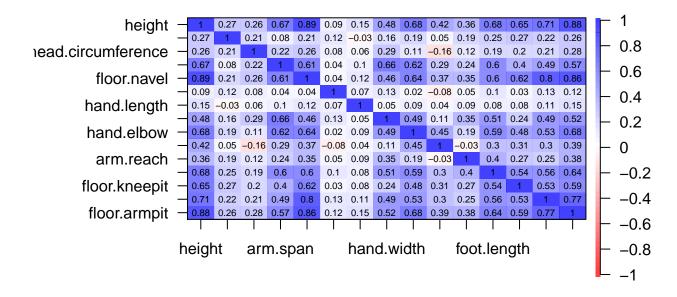
##	373	cm
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```
saveRDS(measure.df,"measure.df.rds");
# 411f8b5c9500b7cc928c93dd1a0006b7
# 7e6e6a69493f1d54a74ecdd4058ebadf 81a9f3915f64dc6edd329b89bea87d5e 182.88000
# 9eb3d5323b1a3c511c3b8c8038727737 "ee33e909372d935d190f4fcb2a92d542" 10.75000
```

```
final.df = measure.df;
final.df = subsetDataFrame(final.df, "data_collector", "!=", "411f8b5c9500b7cc928c93dd1a0006b7");
final.df = subsetDataFrame(final.df, "person_id", "!=", "81a9f3915f64dc6edd329b89bea87d5e");
final.df = subsetDataFrame(final.df, "person_id", "!=", "\"ee33e909372d935d190f4fcb2a92d542\"");
myEye = tolower(final.df$eye);
myEye[myEye == "both"] = "b";
myEye[myEye == "\b"] = "b";
myEye[myEye == "equal"] = "b";
myEye[myEye == "right"] = "r";
myEye[myEye == "\"right\""] = "r";
myEye[myEye == "left"] = "l";
myEye[myEye == "\"left\""] = "r";
myEye[myEye == "brown"] = NA;
final.df$my.eye = factor(myEye);
myWriting = tolower(final.df$writing);
myWriting[myWriting == "right"] = "r";
myWriting[myWriting == "\"right\""] = "r";
myWriting[myWriting == "left"] = "l";
myWriting[myWriting == "both"] = "b";
final.df$my.writing = factor(myWriting);
mySwinging = tolower(final.df$swinging);
mySwinging[mySwinging == "right"] = "r";
mySwinging[mySwinging == "rigth"] = "r";
mySwinging[mySwinging == "\"right\""] = "r";
mySwinging[mySwinging == "left"] = "l";
mySwinging[mySwinging == "let"] = "l";
mySwinging[mySwinging == "leftt"] = "l";
mySwinging[mySwinging == "both"] = "b";
final.df$my.swinging = factor(mySwinging);
myEyeColor = tolower(final.df$eye.color);
myEyeColor[myEyeColor == "brown"] = "br";
myEyeColor[myEyeColor == "\"brown\""] = "br";
myEyeColor[myEyeColor == "blue"] = "bl";
myEyeColor[myEyeColor == "\"blue\""] = "bl";
myEyeColor[myEyeColor == "green"] = "gr";
myEyeColor[myEyeColor == "hazel"] = "ha";
myEyeColor[myEyeColor == "grey"] = "g";
myEyeColor[myEyeColor == "blue-green"] = "bl-gr";
myEyeColor[myEyeColor == "blue/green"] = "bl-gr";
myEyeColor[myEyeColor == "blue-grey"] = "bl-g";
myEyeColor[myEyeColor == "grey-green"] = "gr-g";
myEyeColor[myEyeColor == "black"] = "b";
myEyeColor[myEyeColor == "left"] = NA;
final.df$my.eye.color = factor(myEyeColor);
final.df$my.gender = factor(final.df$my.gender);
final.df$my.ethnicity = factor(final.df$my.ethnicity);
\# measure.nic = subsetDataFrame(measure.short, "data_collector", "==", "0185c7c2eed9d48197953305a817c8b", "data_collector", "data_collector, "data_collector, "data_collector, "data_collector, "data_collector, "data_collector, "data_collector, "data_colle
```

```
# measure.nic2 = subsetDataFrame(measure.df, "data_collector", "==", "0185c7c2eed9d48197953305a817c8b1"
# 411f8b5c9500b7cc928c93dd1a0006b7
final.df$person_id = trimMe( gsub('"',"",final.df$person_id,fixed=TRUE) );
saveRDS(final.df, "final.measure.rds");
    utils::write.table(final.df, file="final.measure.txt", quote=FALSE, col.names=TRUE, row.names=FALSE
summary(final.df)
   data_collector
                       person_id
                                             height
                                                           head.height
##
   Length:251
                      Length:251
                                         Min. : 85.09
                                                          Min.
                                                                 :15.24
##
   Class : character
                      Class : character
                                         1st Qu.:160.00
                                                          1st Qu.:20.50
                      Mode :character
                                                          Median :22.00
  Mode :character
                                         Median :168.40
##
                                         Mean :167.25
                                                          Mean :22.24
##
                                         3rd Qu.:177.80
                                                          3rd Qu.:23.50
##
                                                :191.10
                                                                 :38.10
                                         Max.
                                                          Max.
##
                                         NA's
                                                          NA's
                                                :9
                                                                 :9
   head.circumference
                                       floor.navel
                                                         units
##
                         arm.span
  Min.
          :21.50
                      Min. : 61.5
                                      Min. : 49.0
                                                      Length:251
##
                                                      Class :character
   1st Qu.:55.00
                      1st Qu.:158.9
                                      1st Qu.: 95.0
## Median :56.58
                                                      Mode :character
                      Median :168.9
                                      Median :101.0
## Mean :56.08
                      Mean :167.4
                                      Mean :101.6
## 3rd Qu.:58.42
                      3rd Qu.:179.0
                                      3rd Qu.:107.0
## Max.
          :64.10
                      Max.
                            :224.0
                                      Max.
                                            :151.1
  NA's
                                      NA's
##
          :19
                      NA's
                             :8
                                            :50
##
     writing
                          eye
                                          eye.color
                                                              swinging
## Length:251
                                                            Length:251
                      Length:251
                                         Length:251
##
  Class :character
                      Class :character
                                         Class :character
                                                            Class : character
   Mode :character
                                         Mode :character
                                                            Mode :character
##
                      Mode :character
##
##
##
##
##
                      gender
                                         quality
        age
                                                          minutes
                   Length:251
                                      Min. : 5.000
                                                             :-2.209e+09
   Min. : 1.00
                                      1st Qu.: 8.000
   1st Qu.:22.00
                   Class : character
                                                       1st Qu.: 1.000e+01
##
##
   Median :27.00
                   Mode :character
                                      Median : 9.000
                                                       Median: 1.500e+01
  Mean :34.69
##
                                      Mean : 8.616
                                                       Mean :-9.204e+07
   3rd Qu.:50.00
                                      3rd Qu.:10.000
                                                       3rd Qu.: 2.000e+01
  Max. :94.00
                                      Max. :10.000
                                                              : 4.500e+01
##
                                                       Max.
##
                                                       NA's
                                                              :11
##
   ethnicity
                         notes
                                          hand.length
                                                            hand.width
##
  Length:251
                      Length:251
                                         Min.
                                               : 8.00
                                                          Min. : 7.00
                      Class :character
   Class :character
                                         1st Qu.: 17.02
                                                          1st Qu.:18.41
##
##
   Mode :character
                      Mode :character
                                         Median : 18.00
                                                          Median :19.94
##
                                         Mean
                                               : 19.53
                                                          Mean
                                                               :19.55
##
                                         3rd Qu.: 19.30
                                                          3rd Qu.:21.50
##
                                                :223.20
                                                          Max.
                                                                 :26.50
##
                                                          NA's
                                                                 :10
##
     hand.elbow
                    elbow.armpit
                                                    foot.length
                                     arm.reach
##
  Min.
          :23.50
                   Min. :10.00
                                   Min. : 38.0
                                                   Min.
                                                          :13.50
   1st Qu.:40.07
                   1st Qu.:22.86
                                   1st Qu.:191.0
                                                   1st Qu.:23.00
##
## Median:43.00
                   Median :26.00
                                   Median :207.0
                                                   Median :24.80
## Mean :42.40
                   Mean :26.72
                                   Mean :191.7
                                                   Mean :24.77
## 3rd Qu.:45.50
                   3rd Qu.:29.50
                                   3rd Qu.:221.9
                                                   3rd Qu.:26.43
```

```
##
   Max.
          :52.25
                  Max.
                        :71.00
                                Max.
                                       :244.5
                                               Max.
                                                     :38.75
## NA's
        :17
                  NA's :18
                                NA's :18
                                               NA's :16
## floor.kneepit
                  floor.hip
                                 floor.armpit
                                               my.units
          :23.50 Min. : 35.00 Min. : 69.5
## Min.
                                              Length:251
## 1st Qu.:41.98 1st Qu.: 90.17
                                 1st Qu.:123.4
                                               Class : character
## Median :45.00 Median : 96.00
                                Median: 130.8 Mode: character
## Mean :45.14 Mean : 95.15
                                 Mean :130.3
## 3rd Qu.:48.50
                  3rd Qu.:101.05
                                 3rd Qu.:139.0
## Max. :74.00
                  Max.
                        :113.00
                                 Max.
                                      :156.5
## NA's
                  NA's
                       :28
                                 NA's
         :16
                                       :16
##
   my.ethnicity my.gender new.units
                                           my.eye
                                                    my.writing my.swinging
                                                    b: 3
                                                              b: 3
## w
         :183
               f:122
                         Length:251
                                          b : 23
                                                    1: 34
## a
          : 29
                         Class : character 1
                                                               1: 49
                m:128
                                              : 69
                o: 1 Mode :character
## b
         : 8
                                                    r:214
                                                              r:199
                                         r
                                              :154
## h
          : 6
                                          NA's: 5
##
   ca
          : 4
## k
         : 4
   (Other): 17
##
##
   my.eye.color
## br
         :116
## bl
          : 79
## ha
          : 28
##
         : 16
  gr
## bl-gr : 4
## (Other): 7
## NA's
        : 1
measure.cor \leftarrowcor(na.omit(final.df[,c(3:7,13,19:27)]))
library(corrgram)
## Attaching package: 'corrgram'
## The following object is masked from 'package:lattice':
##
##
      panel.fill
corPlot(measure.cor)
```



```
# Create head to height proportion of each individual
head.over.height <- final.df$head.height/final.df$height
final.df["head.over.height"] <-head.over.height
# Create head to foot length proportion of each individual

# Create arm.reach to height proportion of each individual
height.over.armreach <- final.df$height/final.df$arm.reach
final.df["height.over.armreach"] <-height.over.armreach

# Create floor to hip length to height proportion of each individual
leg.over.height <- final.df$floor.hip/final.df$height
final.df["leg.over.height"] <-leg.over.height

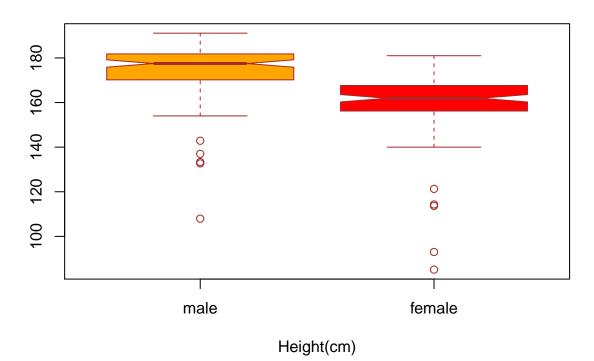
# Create floor to hip length to floor to knee-pit proportion of each individual
# Create foot length to hand length proportion of each individual
```

I want to explore possible relationships between ethnicity and measurements, and between gender and measurements. I can possibly compare by race instead of ethnicity. Difference between child and adults, female and male...

```
# boxlop
height.m <- final.df$height[final.df$my.gender == 'm']
height.f <- final.df$height[final.df$my.gender == 'f']
boxplot(height.m, height.f,</pre>
```

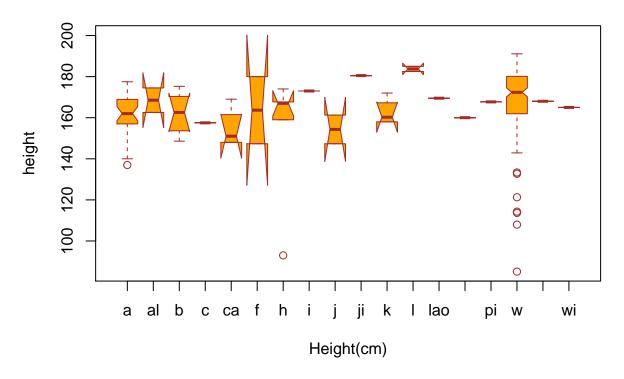
```
main = "Boxplot of height comparision by gender",
names=c("male", "female"),
xlab = "Height(cm)",
col = c("orange", 'red'),
border = "brown",
notch = TRUE)
```

Boxplot of height comparision by gender



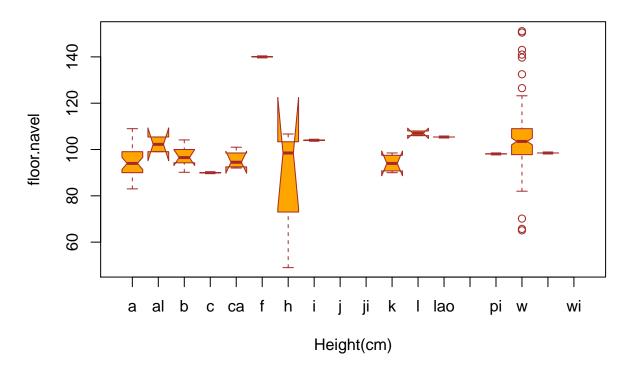
Warning in bxp(list(stats = structure(c(140, 157, 162, 168.9, 177.5, 162.56, :
some notches went outside hinges ('box'): maybe set notch=FALSE

Boxplot of height comparision by ethnicity



```
## Warning in bxp(list(stats = structure(c(83, 90, 94, 99.06, 109, 99.06, 99.06, :
## some notches went outside hinges ('box'): maybe set notch=FALSE
```

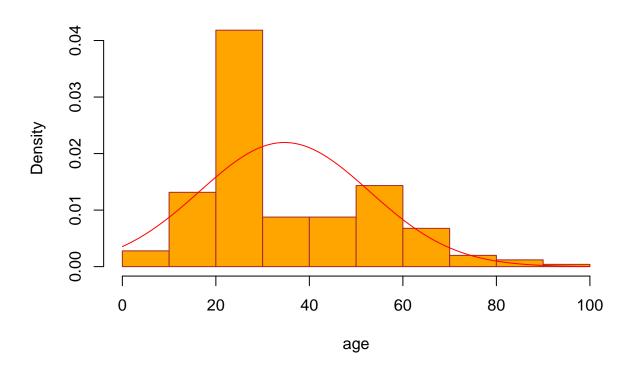
Boxplot of floor to navel comparision by ethnicity



```
age.mean <- mean(final.df$age)
age.sd <- sd(final.df$age)

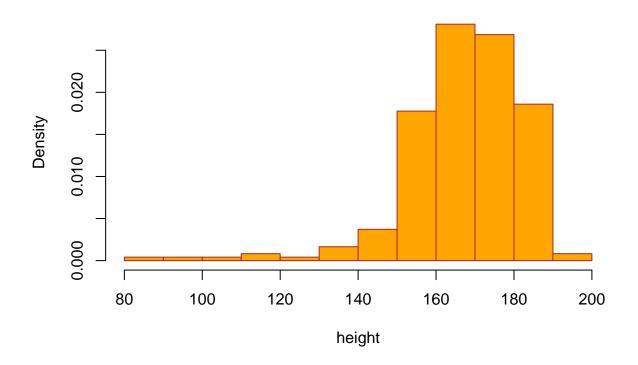
hist(final.df$age, xlab='age', col='orange', border='brown', probability = TRUE)
curve(dnorm(x, mean=age.mean, sd=age.sd), add=TRUE, col='red')</pre>
```

Histogram of final.df\$age



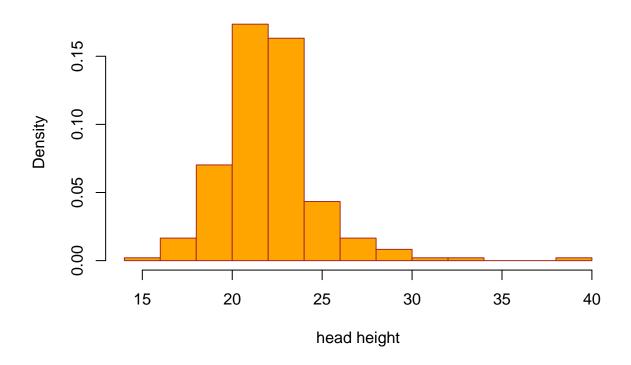
hist(final.df\$height, xlab='height', col='orange', border='brown', probability = TRUE)
curve(dnorm(x, mean=mean(final.df\$height), sd=sd(final.df\$height)), add=TRUE, col='red')

Histogram of final.df\$height



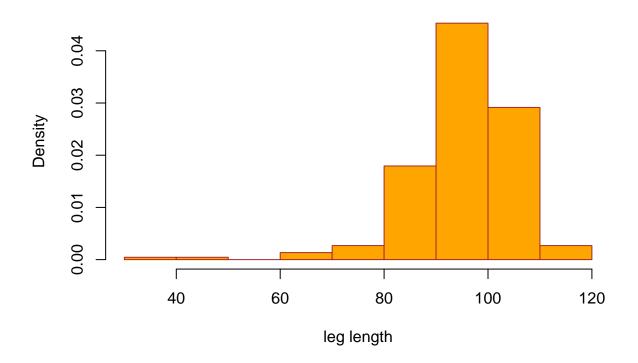
hist(final.df\$head.height, xlab='head height', col='orange', border='brown', probability = TRUE)
curve(dnorm(x, mean=mean(final.df\$head.height), sd=sd(final.df\$head.height)), add=TRUE, col='red')

Histogram of final.df\$head.height



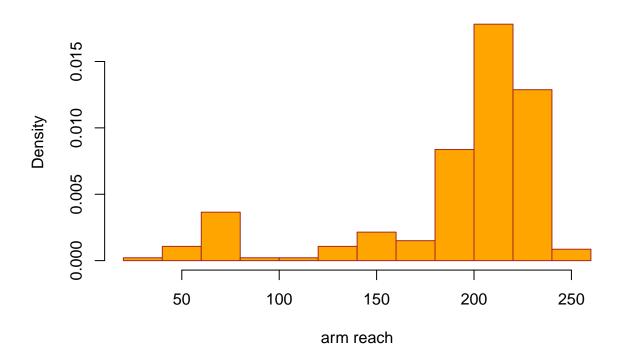
hist(final.df\$floor.hip, xlab='leg length', col='orange', border='brown', probability = TRUE)
curve(dnorm(x, mean=mean(final.df\$floor.hip), sd=sd(final.df\$floor.hip)), add=TRUE, col='red')

Histogram of final.df\$floor.hip



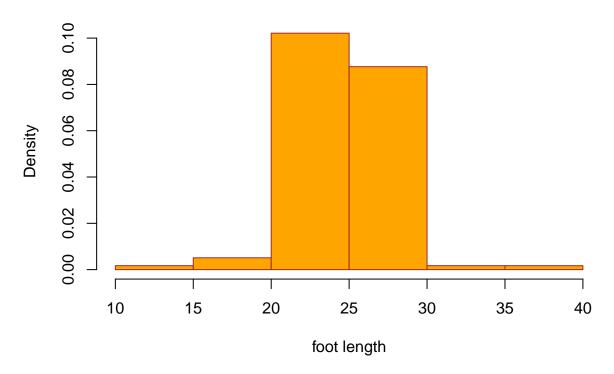
hist(final.df\$arm.reach, xlab='arm reach', col='orange', border='brown', probability = TRUE)

Histogram of final.df\$arm.reach



hist(final.df\$foot.length, xlab='foot length', col='orange', border='brown', probability = TRUE)

Histogram of final.df\$foot.length



ENDNOTES

REFERENCES

& Brooks.

Becker, Richard A, John M Chambers, Allan R Tukey, John W. 1977. Exploratory Data Analysis. 1st Wilks. 1988. The New S Language. Wadsworth ed. Reading, MA.

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