CMTH 642 Data Analytics: Advanced Methods

Assignment 1 (10%)

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#### 1. Read the csv files in the folder. (3 points)

dfMacro <- read.csv("USDA\_Macronutrients.csv")  
dfMicro <- read.csv("USDA\_Micronutrients.csv")

#### 2. Merge the data frames using the variable “ID”. Name the Merged Data Frame “USDA”. (6 points)

USDA <- merge(dfMacro, dfMicro, by="ID")

#### 3. Check the datatypes of the attributes. Delete the commas in the Sodium and Potasium records. Assign Sodium and Potasium as numeric data types. (6 points)

sapply(USDA, class)

## ID Description Calories Protein TotalFat Carbohydrate   
## "integer" "character" "integer" "numeric" "numeric" "numeric"   
## Sodium Cholesterol Sugar Calcium Iron Potassium   
## "character" "integer" "numeric" "integer" "numeric" "character"   
## VitaminC VitaminE VitaminD   
## "numeric" "numeric" "numeric"

USDA[grep(',',USDA$Sodium),"Sodium"]

## [1] "1,395" "1,116" "1,529" "1,602" "1,200" "1,809" "1,671" "1,428"   
## [9] "1,370" "1,284" "1,552" "1,625" "2,280" "1,079" "1,156" "1,238"   
## [17] "1,696" "3,780" "1,131" "1,280" "1,150" "1,638" "1,705" "1,298"   
## [25] "1,499" "1,586" "1,529" "1,587" "1,808" "1,272" "1,671" "1,284"   
## [33] "3,663" "1,640" "1,135" "38,758" "2,964" "8,068" "1,133" "1,000"   
## [41] "1,074" "1,000" "1,018" "1,041" "1,129" "1,094" "1,120" "1,102"   
## [49] "1,265" "1,004" "1,558" "26,000" "24,000" "8,408" "23,875" "24,000"  
## [57] "8,031" "6,722" "4,957" "3,712" "3,833" "11,588" "4,843" "4,152"   
## [65] "6,580" "4,186" "5,356" "4,392" "5,730" "3,643" "1,164" "1,145"   
## [73] "2,643" "1,615" "2,733" "7,851" "1,778" "1,325" "2,036" "3,202"   
## [81] "5,053" "5,203" "4,090" "2,590" "1,338" "17,152" "1,067" "2,002"   
## [89] "2,071" "1,334" "1,240" "1,297" "1,080" "1,184" "1,071" "1,160"   
## [97] "1,112" "1,082" "1,059" "1,235" "1,055" "1,037" "1,120" "1,078"   
## [105] "1,365" "1,203" "1,304" "1,245" "1,320" "1,374" "1,225" "1,329"   
## [113] "1,117" "1,289" "1,293" "1,246" "1,484" "1,523" "1,653" "1,304"   
## [121] "1,225" "1,127" "1,164" "1,140" "1,449" "1,004" "2,260" "2,010"   
## [129] "1,013" "1,272" "1,173" "1,300" "1,015" "1,114" "1,322" "1,207"   
## [137] "1,182" "1,220" "1,033" "1,179" "1,151" "1,117" "1,159" "1,118"   
## [145] "1,438" "1,242" "1,167" "1,249" "1,242" "1,348" "1,248" "1,214"   
## [153] "1,084" "1,073" "1,105" "1,226" "1,184" "1,318" "1,275" "1,309"   
## [161] "1,095" "1,231" "1,826" "1,976" "1,007" "1,046" "1,022" "1,036"   
## [169] "1,424" "1,430" "1,095" "1,025" "1,025" "1,079" "1,143" "1,036"   
## [177] "1,039" "1,142" "1,188" "1,196" "1,070" "1,136" "1,213" "1,077"   
## [185] "1,180" "1,192" "1,177" "1,201" "1,288" "1,127" "1,004" "1,018"   
## [193] "1,162" "1,342" "1,431" "1,096" "1,056" "1,381" "1,369" "1,032"   
## [201] "1,858" "1,330" "1,032" "1,540" "1,483" "1,420" "1,010" "1,890"   
## [209] "1,034" "1,040" "1,087" "1,200" "1,055" "1,160" "1,200" "1,013"   
## [217] "1,090" "1,120" "1,240" "1,050" "1,679" "1,219" "1,310" "1,764"   
## [225] "1,557" "1,518" "1,930" "1,070" "1,556" "2,310" "2,099" "1,409"   
## [233] "1,546" "1,203" "1,500" "1,255" "1,135" "1,240" "2,695" "1,386"   
## [241] "1,088" "1,063" "1,269" "1,284" "1,187" "1,516" "1,327" "1,424"   
## [249] "1,072" "1,231" "1,250" "1,278" "1,385" "1,276" "1,068" "1,155"   
## [257] "1,210" "1,038" "1,016" "2,193" "2,073" "2,428" "1,150" "1,170"   
## [265] "1,060" "1,374" "1,237" "1,390" "1,335" "1,310" "1,267" "1,223"   
## [273] "1,193" "1,141" "1,045" "1,163" "1,180" "1,098" "1,040" "1,090"   
## [281] "1,070" "1,160" "1,090" "1,050" "1,096" "1,308" "1,099" "1,126"   
## [289] "1,011" "1,069" "1,101" "1,309" "1,212" "1,181" "1,181" "1,188"   
## [297] "1,389" "1,335" "1,160" "1,179" "1,173" "1,369" "2,095" "1,578"   
## [305] "1,671" "1,048" "1,173" "1,369" "1,114" "1,208" "1,091" "1,096"   
## [313] "2,853" "2,541" "2,253" "1,217" "1,134" "1,006" "2,790" "1,322"   
## [321] "1,131" "1,258" "1,439" "3,668" "1,500" "7,027" "1,019" "1,072"   
## [329] "1,202" "2,000" "1,465" "3,728" "1,005" "5,637" "5,586" "5,689"   
## [337] "2,873" "1,188" "3,333" "2,873" "1,463" "1,463" "1,078" "1,276"   
## [345] "1,000" "1,080" "1,405" "1,283" "1,044" "1,116" "1,089" "1,082"   
## [353] "1,089" "1,419" "10,600" "7,893" "27,360" "1,759" "1,111" "1,532"   
## [361] "1,680" "1,295" "1,034" "1,059" "2,182" "1,410" "1,360" "1,148"   
## [369] "1,167" "1,214" "2,081" "1,022" "1,058" "1,818" "1,357" "1,553"   
## [377] "1,429" "1,441" "26,050" "1,499" "1,040" "1,332" "1,531" "2,667"   
## [385] "1,488" "1,003" "2,751" "1,499" "1,715" "1,247" "1,319" "1,348"   
## [393] "1,866" "1,270" "1,840" "1,247" "1,319" "1,348" "1,200" "1,647"   
## [401] "1,000" "2,850" "1,038" "1,108" "2,285" "1,103" "1,074" "1,180"   
## [409] "1,041" "1,257" "1,745" "1,528" "1,600" "1,587" "1,020" "1,209"   
## [417] "1,148" "1,674" "1,770" "1,200" "1,120" "1,430" "1,345" "1,030"   
## [425] "1,430" "2,962" "9,690" "1,297" "1,435" "2,838" "3,326" "1,765"   
## [433] "4,250" "4,450"

USDA$Sodium <- sub(',','.',USDA$Sodium)  
USDA$Potassium <- sub(',','.',USDA$Potassium)  
USDA$Sodium <- as.numeric(USDA$Sodium)  
USDA$Potassium <- as.numeric(USDA$Potassium)  
is.numeric(sapply(USDA$Sodium, as.numeric))

## [1] TRUE

is.numeric(sapply(USDA$Potassium, as.numeric))

## [1] TRUE

#### 4. Remove records (rows) with missing values in more than 4 attributes (columns). How many records remain in the data frame? (6 points)

USDA.nacount <- apply(USDA,1, function(x) sum(is.na(x)))  
USDA <- USDA[USDA.nacount <= 4,]  
nrow(USDA)

## [1] 6887

# 6887

#### 5. For records with missing values for Sugar, Vitamin E and Vitamin D, replace missing values with mean value for the respective variable. (6 points)

sugarMean <- mean(USDA$Sugar, na.rm=T)  
vitEMean <- mean(USDA$VitaminE, na.rm=T)  
vitDMean <- mean(USDA$VitaminD, na.rm=T)  
USDA[is.na(USDA$Sugar),'Sugar'] <- sugarMean  
USDA[is.na(USDA$VitaminE),'Sugar'] <- vitEMean  
USDA[is.na(USDA$VitaminD),'Sugar'] <- vitDMean  
# INSERT YOUR ANSWER HERE

#### 6. With a single line of code, remove all remaining records with missing values. Name the new Data Frame “USDAclean”. How many records remain in the data frame? (6 points)

USDAClean <- na.omit(USDA)

#### 7. Which food has the highest sodium level? (6 points)

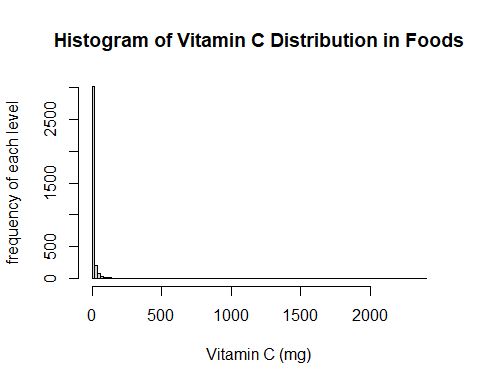
head(USDAClean[order(USDAClean$Sodium, decreasing = T),])

## ID Description  
## 6996 43366 TURKEY,WING,SMOKED,CKD,W/SKN,BONE REMOVED  
## 6997 43367 TURKEY,DRUMSTK,SMOKED,CKD,W/SKN,BONE REMOVED  
## 7005 43390 TURKEY,LT OR DK MEAT,SMOKED,CKD,W/SKN,BONE REMOVED  
## 7006 43391 TURKEY,LT OR DK MEAT,SMOKED,CKD,SKN & BONE REMOVED  
## 5102 18012 BISCUITS,PLN OR BTTRMLK,REFR DOUGH,LOWER FAT  
## 2481 10876 PRK,CRD,HAM W/ NAT JUCS,SPRL SLC,MEAT ONLY,BNLES,LN,HTD,RSTD  
## Calories Protein TotalFat Carbohydrate Sodium Cholesterol Sugar Calcium  
## 6996 221 27.40 12.41 0.00 996 81 0.00 24  
## 6997 200 27.90 9.80 0.00 996 85 0.00 32  
## 7005 200 28.10 9.70 0.00 996 82 0.00 26  
## 7006 162 29.30 5.00 0.00 996 76 0.00 25  
## 5102 257 6.70 4.50 47.60 987 0 7.00 17  
## 2481 126 22.56 3.78 0.41 986 63 1.08 4  
## Iron Potassium VitaminC VitaminE VitaminD  
## 6996 1.46 266 0 0.17 0.1  
## 6997 2.30 280 0 0.62 0.1  
## 7005 1.79 280 0 0.34 0.0  
## 7006 1.78 298 0 0.33 0.1  
## 5102 2.66 159 0 0.06 0.0  
## 2481 0.84 349 0 0.19 0.8

# Food with highest Sodium has 996, shared by 4 entries ID: 43366, 43367, 43390 and 43391

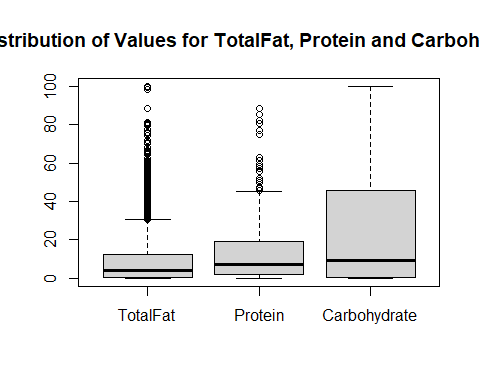
#### 8. Create a histogram of Vitamin C distribution in foods. (6 points)

hist(USDAClean$VitaminC, breaks = 100, xlab = "Vitamin C (mg)", ylab= "frequency of each level", main="Histogram of Vitamin C Distribution in Foods" )



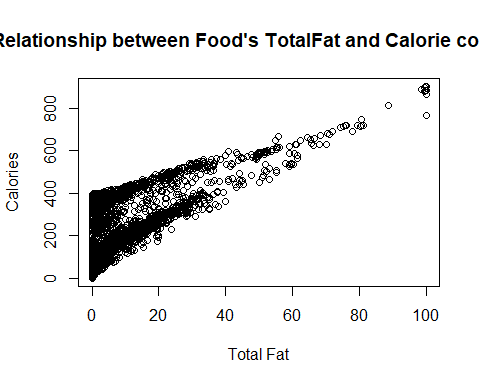
#### 9. Create a boxplot to illustrate the distribution of values for TotalFat, Protein and Carbohydrate. (6 points)

TPCdata <- list(USDAClean$TotalFat, USDAClean$Protein, USDAClean$Carbohydrate)  
names(TPCdata) <- c("TotalFat", "Protein", "Carbohydrate")  
boxplot(TPCdata, main="Distribution of Values for TotalFat, Protein and Carbohydrate")



#### 10. Create a scatterplot to illustrate the relationship between a food’s TotalFat content and its Calorie content. (6 points)

plot(USDAClean$Calories~USDAClean$TotalFat, main="Relationship between Food's TotalFat and Calorie content", ylab="Calories", xlab="Total Fat")



#### 11. Add a variable to the data frame that takes value 1 if the food has higher sodium than average, 0 otherwise. Call this variable HighSodium. Do the same for High Calories, High Protein, High Sugar, and High Fat. How many foods have both high sodium and high fat? (8 points)

USDAClean$HighSodium <- ifelse(USDAClean$Sodium > mean(USDAClean$Sodium), 1, 0 )  
USDAClean$HighCalories <- ifelse(USDAClean$Calories > mean(USDAClean$Calories), 1, 0 )  
USDAClean$HighProtein <- ifelse(USDAClean$Protein > mean(USDAClean$Protein), 1, 0 )  
USDAClean$HighSugar <- ifelse(USDAClean$Sugar > mean(USDAClean$Sugar), 1, 0 )  
USDAClean$HighTotalFat <- ifelse(USDAClean$TotalFat > mean(USDAClean$TotalFat), 1, 0 )  
USDAClean[(USDAClean$HighSodium == 1 & USDAClean$HighTotalFat == 1),]

## ID Description  
## 1 1001 BUTTER,WITH SALT  
## 2 1002 BUTTER,WHIPPED,WITH SALT  
## 5 1005 CHEESE,BRICK  
## 6 1006 CHEESE,BRIE  
## 7 1007 CHEESE,CAMEMBERT  
## 9 1009 CHEESE,CHEDDAR  
## 11 1011 CHEESE,COLBY  
## 17 1017 CHEESE,CREAM  
## 18 1018 CHEESE,EDAM  
## 20 1020 CHEESE,FONTINA  
## 22 1022 CHEESE,GOUDA  
## 23 1023 CHEESE,GRUYERE  
## 24 1024 CHEESE,LIMBURGER  
## 25 1025 CHEESE,MONTEREY  
## 26 1026 CHEESE,MOZZARELLA,WHL MILK  
## 27 1027 CHEESE,MOZZARELLA,WHL MILK,LO MOIST  
## 28 1028 CHEESE,MOZZARELLA,PART SKIM MILK  
## 29 1029 CHEESE,MOZZARELLA,PART SKIM MILK,LO MOIST  
## 30 1030 CHEESE,MUENSTER  
## 34 1034 CHEESE,PORT DE SALUT  
## 35 1035 CHEESE,PROVOLONE  
## 40 1040 CHEESE,SWISS  
## 82 1090 MILK,DRY,WHL,W/ ADDED VITAMIN D  
## 116 1128 EGG,WHL,CKD,FRIED  
## 121 1133 EGG,WHOLE,DRIED  
## 130 1144 EGG SUBSTITUTE,POWDER  
## 138 1156 CHEESE,GOAT,HARD TYPE  
## 139 1157 CHEESE,GOAT,SEMISOFT TYPE  
## 140 1159 CHEESE,GOAT,SOFT TYPE  
## 142 1161 CHEESE SUB,MOZZARELLA  
## 144 1164 CHEESE SAU,PREP FROM RECIPE  
## 146 1166 CHEESE,MEXICAN,QUESO ASADERO  
## 147 1167 CHEESE,MEXICAN,QUESO CHIHUAHUA  
## 158 1182 USDA COMMODITY,CHS,CHEDDAR,RED FAT  
## 180 1206 CREAM SUB,FLAV,PDR  
## 181 1208 CHEESE,PROVOLONE,RED FAT  
## 182 1209 CHEESE,MEXICAN,BLEND,RED FAT  
## 185 1212 MILK,DRY,WHL,WO/ ADDED VITAMIN D  
## 195 1223 PROTEIN SUPP,MILK BSD,MUSCLE MILK,PDR  
## 196 1224 PROTEIN SUPP,MILK BSD,MUSCLE MILK LT,PDR  
## 200 1228 CHEESE,FRSH,QUESO FRESCO  
## 215 1251 CHEESE,MEXICAN BLEND  
## 230 2011 CLOVES,GROUND  
## 283 3819 CHILD FORMULA,MEAD JOHNSON,PORTAGEN,W/ IRON,PDR,NOT RECON  
## 296 4017 SALAD DRSNG,1000 ISLAND,COMM,REG  
## 297 4018 SALAD DRSNG,MAYO TYPE,REG,W/SALT  
## 298 4020 SALAD DRSNG,FRENCH DRSNG,RED FAT  
## 301 4023 SALAD DRSNG,1000 ISLAND DRSNG,RED FAT  
## 302 4025 SALAD DRSNG,MAYO,SOYBN OIL,W/SALT  
## 304 4027 SALAD DRSNG,MAYO,IMITN,SOYBN  
## 306 4029 SALAD DRSNG,MAYO,IMITN,SOYBN WO/CHOL  
## 321 4120 SALAD DRSNG,FRENCH DRSNG,COMM,REG  
## 322 4128 VEG OIL SPRD,UNSPEC OILS,APPROX 37% FAT,W/ SALT  
## 377 4585 MARGARINE-LIKE,MARGARINE-BUTTER BLEND,SOYBN OIL & BUTTER  
## 388 4600 MARGARINE-LIKE,VEG OIL-BUTTER SPRD,TUB,W/ SALT  
## 389 4601 BUTTER,LT,STK,W/SALT  
## 391 4606 MEAT DRIPPINGS (LARD,BF TALLOW,MUTTON TALLOW)  
## 393 4610 MARGARINE,REG,80% FAT,COMP,STK,W/ SALT  
## 394 4611 MARGARINE,REG,80% FAT,COMP,TUB,W/ SALT  
## 395 4612 MARGARINE-LIKE,VEG OIL SPRD,60% FAT,STK,W/ SALT  
## 396 4613 MARGARINE-LIKE,VEG OIL SPRD,60% FAT,TUB,W/ SALT  
## 397 4614 MARGARINE-LIKE,VEG OIL SPRD,60% FAT,STICK/TUB/BOTTLE,W/ SALT  
## 403 4626 MARGARINE-LIKE SPRD W/ YOGURT,70% FAT,STK,W/ SALT  
## 404 4627 MARGARINE-LIKE SPRD W/ YOGURT,APPROX 40% FAT,TUB,W/ SALT  
## 409 4633 MARGARINE-LIKE,VEG OIL SPRD,20% FAT,W/ SALT  
## 416 4641 SALAD DRSNG,MAYO,LT  
## 439 4665 MARGARINE,INDUS,NON-DAIRY,CTTNSD,SOY OIL (PART HYDR )  
## 459 4690 VEG OIL SPRD,37% FAT,UNSPEC OILS,W/ SALT,W/ ADDED VITAMIN D  
## 460 4691 MARGARINE,REG,80% FAT,COMP,STK,W/ SALT,W/ ADDED VITAMIN D  
## 461 4692 MARGARINE,REG,80% FAT,COMP,TUB,W/ SALT,W/ ADDED VITAMIN D  
## 462 4693 VEG OIL SPRD,60% FAT,STK,W/ SALT,W/ ADDED VITAMIN D  
## 463 4694 VEG OIL SPRD,60% FAT,TUB,W/ SALT,W/ ADDED VITAMIN D  
## 464 4695 VEG-OIL SPRD,STICK/TUB/BOTTLE,60% FAT,W/ ADDED VITAMIN D  
## 472 4703 SALAD DRSNG,HONEY MUSTARD,REG  
## 473 4704 SALAD DRSNG,POPPYSEED,CREAMY  
## 483 5007 CHICKEN,BROILERS OR FRYERS,MEAT&SKN,CKD,FRIED,BATTER  
## 534 5058 CHICKEN,BROILERS OR FRYERS,BREAST,MEAT&SKN,CKD,FRIED,BATTER  
## 758 5292 TURKEY PATTIES,BREADED,BATTERED,FRIED  
## 783 5321 CHICKEN NUGGETS,FRZ,CKD  
## 787 5325 CHICKEN BREAST TENDERS,CKD,CONVENTIONAL OVEN  
## 966 6166 SAUCE,HOMEMADE,WHITE,MED  
## 967 6167 SAUCE,HOMEMADE,WHITE,THICK  
## 1324 7002 BEERWURST,BEER SALAMI,PORK & BF  
## 1327 7005 BLOOD SAUSAGE  
## 1328 7006 BOCKWURST PORK VEAL RAW  
## 1330 7008 BOLOGNA,BF & PORK  
## 1333 7013 BRATWURST,PORK,CKD  
## 1344 7024 FRANKFURTER,CHICK  
## 1350 7034 HEADCHEESE,PORK  
## 1353 7037 KIELBASA,KOLBASSY,PORK,BF,NONFAT DRY MILK  
## 1354 7038 KNACKWURST KNOCKWURST PORK BF  
## 1367 7053 PATE,CHICKEN LIVER,CANNED  
## 1377 7063 PORK SAUSAGE,FRSH,RAW  
## 1378 7064 PORK SAUSAGE,FRSH,CKD  
## 1379 7065 PORK&BF SAUSAGE,FRSH,CKD  
## 1380 7066 TURKEY SAUSAGE,RED FAT,BROWN&SERVE,CKD  
## 1381 7067 POULTRY SALAD SNDWCH SPRD  
## 1388 7074 SMOKED LINK SAUSAGE,PORK  
## 1389 7075 SAUSAGE,SMOKED LINK SAUSAGE,PORK & BF  
## 1397 7083 SAUSAGE,VIENNA,CND,CHICK,BF,PORK  
## 1482 7906 LUNCHEON MEAT,PORK,HAM,&CHICK,MINCD,CND,RED NA,VIT C, (SPAM)  
## 1495 7919 SAUSAGE TURKEY BRKFST LINKS MILD  
## 1524 7951 SCRAPPLE,PORK  
## 1526 7953 PORK SAUSAGE,PRE-COOKED  
## 1527 7954 BEEF SAUSAGE,PRE-COOKED  
## 1529 7956 BEEF SAUSAGE,FRSH,CKD  
## 1549 8023 CEREALS RTE,KELLOGG,KELLOGG'S CRACKLIN' OAT BRAN  
## 1592 8086 CEREALS RTE,GENERAL MILLS,FRENCH TOAST CRUNCH  
## 1673 8194 CEREALS RTE,GENERAL MILLS,REESE'S PUFFS  
## 1781 8435 CEREALS RTE,UNCLE SAM CRL  
## 1801 8487 CEREALS RTE,MALT-O-MEAL,BLUEBERRY MUFFIN TOPS CRL  
## 1819 8510 MILK & CRL BAR  
## 1842 8554 CEREALS RTE,ROLLED OATS,WHL WHEAT,RICE,MAPLE FLAV,W/ PECANS  
## 1859 8579 CEREALS RTE,GENERAL MILLS,25% LESS SUGAR CINN TOAST CRL  
## 2085 9193 OLIVES,RIPE,CND (SMALL-EXTRA LRG)  
## 2368 10123 PORK,CURED,BACON,RAW  
## 2392 10166 PORK,CURED,FAT (FROM HAM&ARM PICNIC),UNHTD  
## 2499 10894 PORK,CURED,HAM,FAT,BNLESS,HTD  
## 2500 10895 PORK,CURED,HAM,FAT,BNLESS,UNHTD  
## 2867 11370 POTATOES,HASHED BROWN,HOME-PREPARED  
## 3069 11658 SPINACH SOUFFLE  
## 3078 11672 POTATO PANCAKES  
## 3422 12109 COCONUT MEAT,DRIED (DESICCATED),SWTND,FLAKED,PACKAGED  
## 3465 12179 COCONUT MEAT,DRIED (DESICCATED),SWTND,SHREDDED  
## 3478 12516 PUMPKIN&SQUASH SD KRNLS,RSTD,W/SALT  
## 3479 12529 SESAME SD KRNLS,TSTD,W/SALT (DECORT)  
## 3480 12537 SUNFLOWER SD KRNLS,DRY RSTD,W/SALT  
## 3481 12538 SUNFLOWER SD KRNLS,OIL RSTD,W/SALT  
## 3483 12540 SUNFLOWER SD BUTTER,W/SALT  
## 3484 12563 ALMONDS,DRY RSTD,W/SALT  
## 3485 12565 ALMONDS,OIL RSTD,W/SALT  
## 3486 12585 CASHEW NUTS,DRY RSTD,W/SALT  
## 3487 12586 CASHEW NUTS,OIL RSTD,W/SALT  
## 3488 12588 CASHEW BUTTER,PLN,W/SALT  
## 3489 12632 MACADAMIA NUTS,DRY RSTD,W/SALT  
## 3490 12635 MIXED NUTS,DRY RSTD,W/PNUTS,W/SALT  
## 3491 12637 NUTS,MXD NUTS,OIL RSTD,W/ PNUTS,W/ SALT ADDED  
## 3492 12638 NUTS,MXD NUTS,OIL RSTD,WO/ PNUTS,W/ SALT ADDED  
## 3493 12643 PECANS,DRY RSTD,W/SALT  
## 3494 12644 PECANS,OIL RSTD,W/SALT  
## 3495 12652 PISTACHIO NUTS,DRY RSTD,W/SALT  
## 3497 12695 ALMOND BUTTER,PLN,W/SALT  
## 3965 14204 COFFEE&COCOA (MOCHA) PDR,W/WHTNR&LO CAL SWTNR,DECAFFEINATED  
## 3974 14224 COFFEE,INST,W/SUGAR,MOCHA-FLAVOR,PDR  
## 3976 14229 COFFEE,INST,W/SUGAR,FRENCH-FLAVOR,PDR  
## 4156 15014 CISCO,SMOKED  
## 4169 15027 FISH PORTIONS&STKS,FRZ,PREHTD  
## 4183 15041 HERRING,ATLANTIC,PICKLED  
## 4184 15042 HERRING,ATLANTIC,KIPPERED  
## 4230 15088 SARDINE,ATLANTIC,CND IN OIL,DRND SOL W/BONE  
## 4231 15089 SARDINE,PACIFIC,CND IN TOMATO SAU,DRND SOL W/BONE  
## 4289 15150 SHRIMP,MXD SP,CKD,BREADED&FRIED  
## 4479 16088 PEANUTS,ALL TYPES,CKD,BLD,W/SALT  
## 4480 16089 PEANUTS,ALL TYPES,OIL-ROASTED,W/SALT  
## 4481 16090 PEANUTS,ALL TYPES,DRY-ROASTED,W/SALT  
## 4488 16097 PEANUT BUTTER,CHUNK STYLE,W/SALT  
## 4489 16098 PEANUT BUTTER,SMOOTH STYLE,W/ SALT  
## 4497 16107 SAUSAGE,MEATLESS  
## 4533 16149 PEANUT SPRD,RED SUGAR  
## 4534 16150 PEANUT BUTTER,SMOOTH,RED FAT  
## 4536 16155 PEANUT BUTTER,SMOOTH,VIT & MINERAL FORT  
## 4537 16156 PEANUT BUTTER,CHUNKY,VITAMIN&MINERAL FORT  
## 4544 16167 USDA CMDTY,PNUT BUTTER,SMOOTH  
## 5099 18009 BISCUITS,PLN OR BTTRMLK,FRZ,BKD  
## 5110 18022 BREAD,CORNBREAD,DRY MIX,ENR (INCL CORN MUFFIN MIX)  
## 5161 18099 CAKE,CHOC,DRY MIX,REG  
## 5162 18107 COFFEECAKE,CINN W/CRUMB TOPPING,DRY MIX  
## 5164 18114 CAKE,GINGERBREAD,DRY MIX  
## 5165 18117 CAKE,MARBLE,DRY MIX,PUDDING-TYPE  
## 5167 18137 CAKE,WHITE,DRY MIX,REG  
## 5169 18144 CAKE,YEL,DRY MIX,REG,ENR  
## 5170 18150 COOKIES,ANIMAL CRACKERS (INCL ARROWROOT,TEA BISCUITS,)  
## 5172 18157 COOKIES,CHOCOLATE WAFERS  
## 5176 18166 COOKIES,CHOC SNDWCH,W/CREME FILLING,REG  
## 5177 18167 COOKIES,CHOC SNDWCH,W/CREME FILLING,REG,CHOCOLATE-COATED  
## 5178 18168 COOKIES,CHOC SNDWCH,W/EX CREME FILLING  
## 5183 18174 COOKIES,GRAHAM CRACKERS,CHOCOLATE-COATED  
## 5186 18177 COOKIES,MOLASSES  
## 5187 18178 COOKIES,OATMEAL,COMMLY PREP,REG  
## 5193 18185 COOKIES,PNUT BUTTER,COMMLY PREP,REG  
## 5197 18190 COOKIES,PNUT BUTTER SNDWCH,REG  
## 5198 18191 COOKIES,RAISIN,SOFT-TYPE  
## 5201 18198 COOKIES,CHOC CHIP,COMMLY PREP,SPL DIETARY  
## 5202 18199 COOKIES,CHOC SNDWCH,W/CREME FILLING,SPL DIETARY  
## 5203 18200 COOKIES,OATMEAL,COMMLY PREP,SPL DIETARY  
## 5206 18203 COOKIES,SUGAR,COMMLY PREP,SPL DIETARY  
## 5207 18204 COOKIES,SUGAR,COMMLY PREP,REG (INCL VANILLA)  
## 5209 18206 COOKIES,SUGAR,REFR DOUGH,BKD  
## 5211 18210 COOKIES,VANILLA SNDWCH W/CREME FILLING  
## 5212 18211 PUFF PASTRY,FRZ,RTB,BKD  
## 5213 18212 COOKIES,VANILLA WAFERS,LOWER FAT  
## 5215 18214 CRACKERS,CHEESE,REGULAR  
## 5216 18215 CRACKERS,CHS,SANDWICH-TYPE W/PNUT BUTTER FILLING  
## 5224 18223 CRACKERS,MILK  
## 5230 18229 CRACKERS,STD SNACK-TYPE,REG  
## 5231 18230 CRACKERS,STD SNACK-TYPE,SNDWCH,W/CHS FILLING  
## 5232 18231 CRACKERS,STD SNACK-TYPE,SNDWCH,W/PNUT BUTTER FILLING  
## 5233 18232 CRACKERS,WHEAT,REGULAR  
## 5236 18235 CRACKERS,WHOLE-WHEAT  
## 5238 18239 CROISSANTS,BUTTER  
## 5240 18241 CROISSANTS,CHEESE  
## 5243 18244 DANISH PASTRY,CINN,ENR  
## 5244 18245 DANISH PASTRY,CHEESE  
## 5245 18246 DANISH PASTRY,FRUIT,ENR  
## 5246 18247 DANISH PASTRY,NUT (INCL ALMOND,RAISIN NUT,CINN NUT)  
## 5247 18248 DOUGHNUTS,CAKE-TYPE,PLN (INCLUDES UNSUGARED,OLD-FASHIONED)  
## 5248 18249 DOUGHNUTS,CAKE-TYPE,PLN,CHOCOLATE-COATED OR FRSTD  
## 5250 18251 DOUGHNUTS,CAKE-TYPE,CHOC,SUGARED OR GLAZED  
## 5251 18252 DOUGHNUTS,CAKE-TYPE,WHEAT,SUGARED OR GLAZED  
## 5252 18253 DOUGHNUTS,FRENCH CRULLERS,GLAZED  
## 5253 18254 DOUGHNUTS,YEAST-LEAVENED,W/CREME FILLING  
## 5254 18255 DOUGHNUTS, YEAST-LEAVENED, GLAZED, ENRICHED (INC HONEY BUNS)  
## 5255 18256 DOUGHNUTS,YEAST-LEAVENED,W/JELLY FILLING  
## 5256 18257 ECLAIRS,CUSTARD-FILLED W/CHOC GLAZE,PREP FROM RECIPE  
## 5288 18330 PIE CRUST,COOKIE-TYPE,PREP FROM RECIPE,GRAHAM CRACKER,BKD  
## 5292 18335 PIE CRUST,STANDARD-TYPE,FRZ,RTB,ENR,BKD  
## 5310 18356 SWEET ROLLS,CINN,COMMLY PREP W/RAISINS  
## 5313 18360 TACO SHELLS, BAKED  
## 5315 18362 TOASTER PASTRIES,FRUIT  
## 5338 18398 PIE CRUST,COOKIE-TYPE,PREP FROM RECIPE,CHOC WAFER,CHILLED  
## 5341 18401 PIE CRUST,COOKIE-TYPE,PREP FROM RECIPE,VANILLA WAFER,CHILLED  
## 5342 18402 PIE CRUST,STANDARD-TYPE,PREP FROM RECIPE,UNBAKED  
## 5361 18427 CRACKERS,STD SNACK-TYPE,REG,LO SALT  
## 5368 18434 CRACKERS,CHS,LO NA  
## 5468 18942 PIE CRUST,COOKIE-TYPE,GRAHAM CRACKER,READY CRUST  
## 5475 18950 CRACKERS,WHEAT,RED FAT  
## 5478 18953 BREAD,SALVADORAN SWT CHS (QUESADILLA SALVADORENA)  
## 5480 18955 BREAD,PAN DULCE,SWT YEAST BREAD  
## 5488 18963 GARLIC BREAD,FRZ  
## 5489 18964 CINNAMON BUNS,FRSTD (INCLUDES HONEY BUNS)  
## 5494 18969 CREAM PUFF,ECLAIR,CUSTARD OR CRM FILLED,ICED  
## 5497 18972 BREAD,CHS  
## 5509 19003 CORN-BASED,EXTRUDED,CHIPS,PLN  
## 5513 19007 SNACKS,CORN-BASED,EXTRUDED,ONION-FLAVOR  
## 5514 19008 CORN-BASED,EXTRUDED,PUFFS OR TWISTS,CHEESE-FLAVOR  
## 5515 19009 CORNNUTS,PLAIN  
## 5519 19015 GRANOLA BARS,HARD,PLAIN  
## 5522 19019 GRANOLA BARS,HARD,PEANUT  
## 5528 19026 GRANOLA BARS,SOFT,COATD,MILK CHOC COATING,PNUT BUTTER  
## 5530 19031 ORIENTAL MIX,RICE-BASED  
## 5536 19039 POPCORN,CARAMEL-COATED,WO/PNUTS  
## 5539 19042 POTATO CHIPS,BARBECUE-FLAVOR  
## 5541 19045 POTATO CHIPS,MADE FROM DRIED POTATOES,LT  
## 5550 19056 TORTILLA CHIPS,PLAIN  
## 5561 19069 CANDIES,NESTLE,BUTTERFINGER BAR  
## 5575 19086 CANDIES,CONFECTIONER'S COATING,PNUT BUTTER  
## 5587 19098 CANDIES,5TH AVENUE CANDY BAR  
## 5600 19111 CANDIES,NESTLE,BABY RUTH BAR  
## 5607 19118 CANDIES,NESTLE,OH HENRY! BAR  
## 5631 19144 CANDIES,NESTLE,100 GRAND BAR  
## 5635 19148 CANDIES,PNUT BRITTLE,PREPARED-FROM-RECIPE  
## 5637 19150 CANDIES,REESE'S PNUT BUTTER CUPS  
## 5638 19151 CANDIES,REESE'S PIECES CANDY  
## 5642 19155 CANDIES,MARS SNACKFOOD US,SNICKERS BAR  
## 5645 19159 CANDIES,MARS SNACKFOOD US,3 MUSKETEERS BAR  
## 5646 19160 CANDIES,MARS SNACKFOOD US,TWIX CARAMEL COOKIE BARS  
## 5647 19161 CANDIES,MARS SNACKFOOD US,TWIX PNUT BUTTER COOKIE BARS  
## 5648 19162 CANDIES,WHATCHAMACALLIT CANDY BAR  
## 5700 19227 FROSTINGS,COCONUT-NUT,RTE  
## 5718 19249 CANDIES,HERSHEY,REESESTICKS CRISPY WAFERS,PNUT BUT,MILK CHOC  
## 5765 19324 PUDDINGS,COCNT CRM,DRY MIX,REG  
## 5818 19410 SNACK,POTATO CHIPS,MADE FROM DRIED POTATOES,PLN  
## 5819 19411 POTATO CHIPS,PLAIN,SALTED  
## 5823 19415 SNACKS,POTATO STKS  
## 5829 19422 SNACKS,POTATO CHIPS,RED FAT  
## 5833 19434 CHEESE PUFFS & TWISTS,CORN BSD,BKD,LOFAT  
## 5843 19524 TARO CHIPS  
## 5856 19802 SNACKS,CORN-BASED,EXTRDD,PUFFS OR TWISTS,CHEESE-FLAVOR,UNENR  
## 5908 19896 CANDIES,REESE'S FAST BREAK,CANDY BAR  
## 5920 19910 CANDIES,CRISPY BAR W/ PNUT BUTTER FILLING  
## 5997 20086 WHEAT FLR,WHITE,TORTILLA MIX,ENR  
## 6022 20113 NOODLES,CHINESE,CHOW MEIN  
## 6027 20118 NOODLES,FLAT,CRUNCHY,CHINESE RESTAURANT  
## 6103 21005 BREAKFAST ITEMS,BISCUIT W/EGG&SAUSAGE  
## 6107 21138 FST FOODS, POTATO, FRNCH FRIED IN VEG OIL  
## 6109 21390 FT FDS, HAMBRGER; SIN, LRG PATTY; W/ CONDMNTS, VEG, MAYO  
## 6114 21462 CRISPY CHICK,BACON,& TOMATO CLUB SNDWCH,W/ CHS,LETUCE,& MAYO  
## 6141 22906 CHICKEN POT PIE,FRZ ENTREE,PREP  
## 6179 22961 HOT POCKETS,MEATBALLS & MOZZARELLA STUFFED SNDWCH,FRZ  
## 6188 22973 CORN DOGS,FRZ,PREP  
## 6189 22974 CHICKEN,NUGGETS,DK & WHITE MEAT,PRECKD,FRZ,NOT REHTD  
## 6593 25014 SNACKS,POPCORN,MICROWAVE,REG (BUTTER) FLAVOR, W/PARHYD OIL  
## 6594 25015 FORMBAR,MARSSNACK,SNICKERS MARATHONPROTPERFBAR,CARMELNUTRUSH  
## 6595 25016 FORM BAR,MARS SNACK US,SNICKERS MARATHON ENERGY BAR,ALL FLAV  
## 6599 25021 FORMULATED BAR,LUNA BAR,NUTZ OVER CHOC  
## 6604 25026 POPCORN,MICROWAVE,REG (BUTTER) FLAVOR,MADE W/ PALM OIL  
## 6605 25027 SNACKS,PLANTAIN CHIPS,SALTED  
## 6606 25028 TORTILLA CHIPS,YEL,PLN,SALTED  
## 6607 25030 SNACKS,VEG CHIPS,HAIN CELESTIAL GROUP,TERRA CHIPS  
## 6608 25031 FORM BAR,ZONE PERFECT CLASSIC CRUNCH BAR,MXD FLAVORS  
## 6610 25033 SNACKS,GRANOLA BAR,KASHI TLC BAR,CHEWY,MXD FLAVORS  
## 6612 25035 SNACKS,GRANOLA BAR,CHEWY,RED SUGAR,ALL FLAVORS  
## 6614 25037 SNACKS,PITA CHIPS,SALTED  
## 6615 25038 SNACKS,GRANOLA BARS,SOFT,ALMOND,CONFECTIONERS COATING  
## 6617 25040 SNACKS,VEG CHIPS,MADE FROM GARDEN VEG  
## 6618 25041 SNACKS,GRANOLA BAR,KASHI TLC BAR,CRUNCHY,MXD FLAVORS  
## 6621 25046 SNACKS,BAGEL CHIPS,PLN  
## 6622 25048 SNACKS,NUTRI-GRAIN FRUIT & NUT BAR  
## 6626 25053 Sna, grano ba, GENE MIL NATURE VALLEY, SWEET&SALTY NUT, pea  
## 6627 25054 Snack,gran bar,GENERAL MILLS, NATURE VALLEY, w yogu coati  
## 6628 25055 SNACKS,GRAN BAR,GEN MILLS,NATURE VALLEY,CHEWY TRAIL MIX  
## 6629 25056 Snacks, granola bar, QUAKER, DIPPS, all flavors  
## 6670 27049 SAUCE,TARTAR,RTS  
## 6792 35168 FISH,SALMON,KING,W/ SKN,KIPPERED,(ALASKA NATIVE)  
## 6852 42117 IMITATION CHS,AMERICAN OR CHEDDAR,LO CHOL  
## 6858 42136 CREAM SUB,PDR,LT  
## 6860 42139 GRANOLA BAR,SOFT,MILK CHOC COATD,PNUT BUTTER  
## 6863 42148 CANDIES,MARS SNACKFOOD US,M&M'S PNUT BUTTER CHOC CANDIES  
## 6865 42151 VEGETABLE OIL-BUTTER SPRD,RED CAL  
## 6867 42155 CHEESE,MONTEREY,LOW FAT  
## 6871 42171 SALAD DRSNG,FRENCH DRSNG,RED CAL  
## 6872 42173 TURKEY&PORK SAUSAGE,FRSH,BULK,PATTY OR LINK,CKD  
## 6873 42178 MAYONNAISE,MADE WITH TOFU  
## 6877 42183 CANDIES,MARS SNACKFOOD US,TWIX CHOC FUDGE COOKIE BARS  
## 6884 42190 PORK SAUSAGE RICE LINKS,BROWN&SERVE,CKD  
## 6898 42241 TURKEY,PORK,&BF SAUSAGE,RED FAT,SMOKED  
## 6899 42256 MARGARINE-LIKE,VEG OIL SPRD,STK OR TUB,SWTND  
## 6902 42261 CEREALS RTE,POST,GREAT GRAINS CRUNCHY PECAN CRL  
## 6908 42283 POTATO CHIPS,WHITE,RESTRUCTURED,BKD  
## 6911 42291 PEANUT BUTTER,RED NA  
## 6913 42303 CHEESE,MUENSTER,LOW FAT  
## 6916 42309 MARGARINE-LIKE,VEG OIL-BUTTER SPRD,RED CAL,TUB,W/ SALT  
## 6918 43016 SALAD DRESSING,COLESLAW  
## 6919 43017 SALAD DRSNG,GRN GODDESS,REG  
## 6934 43100 BREAKFAST BARS,OATS,SUGAR,RAISINS,COCNT (INCL GRANOLA BAR)  
## 6939 43128 CHICKEN,MEATLESS  
## 6940 43129 FISH STICKS,MEATLESS  
## 6941 43130 FRANKFURTER,MEATLESS  
## 6942 43131 LUNCHEON SLICES,MEATLESS  
## 6944 43134 VEGETARIAN FILLETS  
## 6969 43274 CHEESE,CREAM,LOW FAT  
## 6971 43276 CHEESE SPRD,CRM CHS BASE  
## 6985 43329 SALAD DRSNG,MAYO & MAYONNAISE-TYPE,LO CAL  
## 6986 43331 SALAD DRSNG,BACON&TOMATO  
## 6988 43343 COFFEE&COCOA (MOCHA) PDR,W/WHTNR&LO CAL SWTNR  
## 6996 43366 TURKEY,WING,SMOKED,CKD,W/SKN,BONE REMOVED  
## 7002 43384 BEEF,BOLOGNA,RED NA  
## 7011 43401 COFFEE,DRY,PDR,W/ WHTNR,RED CAL  
## 7015 43410 CHICKEN,MEATLESS,BREADED,FRIED  
## 7026 43507 FRANKFURTER,LO NA  
## 7032 43566 SNACKS,TORTILLA CHIPS,LT (BAKED W/ LESS OIL)  
## 7039 43598 MAYONNAISE DRSNG,NO CHOL  
## 7040 43599 SALAD DRSNG,MAYO DRSNG,DIET,NO CHOL  
## Calories Protein TotalFat Carbohydrate Sodium Cholesterol Sugar  
## 1 717 0.85 81.11 0.06 714 215 0.060000  
## 2 717 0.85 81.11 0.06 827 219 0.060000  
## 5 371 23.24 29.68 2.79 560 94 0.510000  
## 6 334 20.75 27.68 0.45 629 100 0.450000  
## 7 300 19.80 24.26 0.46 842 72 0.460000  
## 9 403 24.90 33.14 1.28 621 105 0.520000  
## 11 394 23.76 32.11 2.57 604 95 0.520000  
## 17 342 5.93 34.24 4.07 321 110 3.210000  
## 18 357 24.99 27.80 1.43 965 89 1.430000  
## 20 389 25.60 31.14 1.55 800 116 1.550000  
## 22 356 24.94 27.44 2.22 819 114 2.220000  
## 23 413 29.81 32.34 0.36 336 110 0.360000  
## 24 327 20.05 27.25 0.49 800 90 0.490000  
## 25 373 24.48 30.28 0.68 536 89 0.500000  
## 26 300 22.17 22.35 2.19 627 79 1.030000  
## 27 318 21.60 24.64 2.47 415 89 1.010000  
## 28 254 24.26 15.92 2.77 619 64 1.130000  
## 29 302 25.96 20.03 3.83 652 54 0.600000  
## 30 368 23.41 30.04 1.12 628 96 1.120000  
## 34 352 23.78 28.20 0.57 534 123 0.570000  
## 35 351 25.58 26.62 2.14 876 69 0.560000  
## 40 380 26.93 27.80 5.38 192 92 1.320000  
## 82 496 26.32 26.71 38.42 371 97 38.420000  
## 116 196 13.61 14.84 0.83 207 401 0.400000  
## 121 594 47.35 40.95 4.95 523 1507 3.080000  
## 130 444 55.50 13.00 21.80 800 572 21.800000  
## 138 452 30.52 35.59 2.17 346 105 2.170000  
## 139 364 21.58 29.84 2.54 515 79 2.540000  
## 140 268 18.52 21.08 0.89 368 46 0.890000  
## 142 248 11.47 12.22 23.67 685 0 23.670000  
## 144 197 10.33 14.92 5.48 493 38 0.190000  
## 146 356 22.60 28.26 2.87 655 105 2.870000  
## 147 374 21.56 29.68 5.56 617 105 5.560000  
## 158 282 27.20 18.30 2.00 725 56 0.580000  
## 180 498 0.68 21.47 75.42 196 0 58.010000  
## 181 274 24.70 17.60 3.50 876 55 0.550000  
## 182 282 24.69 19.40 3.41 776 62 0.560000  
## 185 496 26.32 26.71 38.42 371 97 38.420000  
## 195 411 45.71 17.14 18.50 329 21 5.710000  
## 196 396 50.00 12.00 22.00 250 10 4.000000  
## 200 299 18.09 23.82 2.98 751 69 2.320000  
## 215 358 23.54 28.51 1.75 696 95 1.230000  
## 230 274 5.97 13.00 65.53 277 0 2.380000  
## 283 483 16.50 22.00 54.80 260 4 54.000000  
## 296 370 1.09 35.06 14.64 863 26 15.180000  
## 297 390 0.90 33.40 23.90 711 26 6.400000  
## 298 222 0.58 11.52 31.22 838 0 16.860000  
## 301 195 0.83 11.32 24.06 955 11 17.310000  
## 302 718 0.90 79.39 3.16 568 38 1.080000  
## 304 232 0.30 19.20 16.00 497 24 6.000000  
## 306 482 0.10 47.70 15.80 353 0 6.000000  
## 321 457 0.77 44.81 15.58 836 0 15.950000  
## 322 339 0.51 37.77 0.66 589 0 0.000000  
## 377 714 0.31 80.32 0.77 633 12 0.000000  
## 388 362 1.00 40.00 1.00 786 0 0.000000  
## 389 509 3.30 55.10 0.00 450 106 0.000000  
## 391 889 0.00 98.59 0.00 545 101 0.000000  
## 393 717 0.16 80.71 0.70 751 0 0.000000  
## 394 713 0.22 80.17 0.75 657 0 0.000000  
## 395 537 0.12 60.39 0.69 785 0 0.000000  
## 396 533 0.17 59.81 0.86 615 1 0.000000  
## 397 526 0.60 59.17 0.00 700 1 0.000000  
## 403 630 0.30 70.00 0.50 590 0 0.000000  
## 404 330 2.00 35.00 2.00 630 0 0.000000  
## 409 175 0.00 19.50 0.40 733 0 0.000000  
## 416 324 0.88 33.09 8.20 673 35 4.340000  
## 439 714 1.90 80.20 0.00 879 0 0.000000  
## 459 339 0.51 37.77 0.66 589 0 0.000000  
## 460 717 0.16 80.71 0.70 751 0 0.000000  
## 461 713 0.22 80.17 0.75 657 0 0.000000  
## 462 537 0.12 60.39 0.69 785 0 0.000000  
## 463 533 0.17 59.81 0.86 785 1 0.000000  
## 464 535 0.60 59.17 0.00 785 1 0.000000  
## 472 464 0.87 40.83 23.33 650 29 15.840000  
## 473 399 0.92 33.33 24.53 788 15 23.390000  
## 483 289 22.54 17.35 9.42 292 87 0.000000  
## 534 260 24.84 13.20 8.99 275 85 0.000000  
## 758 283 14.00 18.00 15.70 567 75 0.320000  
## 783 296 15.27 19.82 14.09 557 43 0.000000  
## 787 293 15.78 17.69 17.00 457 44 0.410000  
## 966 147 3.84 10.63 9.17 354 7 4.380000  
## 967 186 3.99 13.83 11.61 373 6 3.980000  
## 1324 277 14.00 22.53 3.76 732 62 0.000000  
## 1327 379 14.60 34.50 1.29 680 120 1.290000  
## 1328 301 14.03 25.87 2.95 497 93 1.330000  
## 1330 308 15.20 24.59 5.49 960 60 4.420000  
## 1333 333 13.72 29.18 2.85 846 74 0.000000  
## 1344 223 15.51 16.19 2.74 844 96 0.530000  
## 1350 157 13.83 10.90 0.00 830 69 0.000000  
## 1353 309 12.23 27.29 2.81 904 66 1.600000  
## 1354 307 11.10 27.70 3.20 930 60 0.000000  
## 1367 201 13.45 13.10 6.55 386 391 0.000000  
## 1377 304 15.09 26.53 0.00 636 72 0.000000  
## 1378 339 19.43 28.36 0.00 749 84 0.000000  
## 1379 396 13.80 36.25 2.70 805 71 0.000000  
## 1380 204 17.00 10.30 10.92 617 58 0.000000  
## 1381 200 11.64 13.52 7.41 653 30 0.000000  
## 1388 307 11.98 28.23 0.18 827 61 0.940000  
## 1389 320 12.00 28.73 2.42 911 58 0.000000  
## 1397 230 10.50 19.40 2.60 969 87 0.000000  
## 1482 293 12.50 25.10 3.40 946 76 0.000000  
## 1495 235 15.42 18.09 1.56 585 160 0.000000  
## 1524 213 8.06 13.87 14.06 659 49 0.200000  
## 1526 378 14.49 35.04 0.00 752 74 0.000000  
## 1527 405 15.50 37.57 0.03 910 83 0.000000  
## 1529 332 18.21 27.98 0.35 652 82 0.000000  
## 1549 402 8.00 13.90 71.80 309 0 31.500000  
## 1592 438 6.25 10.94 77.55 719 0 34.380000  
## 1673 433 6.90 10.34 75.86 586 0 34.480000  
## 1781 431 15.98 11.60 65.78 206 0 1.560000  
## 1801 443 4.90 11.50 80.00 466 0 35.400000  
## 1819 413 6.47 10.98 72.05 319 6 45.970000  
## 1842 422 8.30 10.50 76.90 279 0 24.500000  
## 1859 393 3.57 10.71 78.57 714 0 21.430000  
## 2085 115 0.84 10.68 6.26 735 0 0.000000  
## 2368 458 11.60 45.04 0.66 833 68 0.000000  
## 2392 579 5.68 61.41 0.09 505 68 0.000000  
## 2499 507 8.77 51.57 2.00 677 72 0.280000  
## 2500 515 7.50 53.00 1.87 616 61 0.440000  
## 2867 265 3.00 12.52 35.11 342 0 1.490000  
## 3069 169 7.89 12.95 5.90 566 118 1.850000  
## 3078 268 6.08 14.76 27.81 764 95 1.790000  
## 3422 456 3.13 27.99 51.85 285 0 36.750000  
## 3465 501 2.88 35.49 47.67 262 0 43.170000  
## 3478 574 29.84 49.05 14.71 256 0 1.290000  
## 3479 567 16.96 48.00 26.04 588 0 0.480000  
## 3480 582 19.33 49.80 24.07 410 0 2.730000  
## 3481 592 20.06 51.30 22.89 410 0 3.110000  
## 3483 617 17.28 55.20 23.32 331 0 10.540000  
## 3484 595 21.06 52.05 21.20 339 0 4.930000  
## 3485 607 21.23 55.17 17.68 339 0 4.550000  
## 3486 574 15.31 46.35 32.69 640 0 5.010000  
## 3487 581 16.84 47.77 30.16 308 0 5.010000  
## 3488 587 17.56 49.41 27.57 614 0 5.010000  
## 3489 716 7.79 76.08 12.83 265 0 4.140000  
## 3490 594 17.30 51.45 25.35 669 0 4.640000  
## 3491 607 20.04 53.95 21.05 273 0 4.150000  
## 3492 615 15.52 56.17 22.27 306 0 4.380000  
## 3493 710 9.50 74.27 13.55 383 0 4.060000  
## 3494 715 9.20 75.23 13.01 393 0 3.970000  
## 3495 564 20.95 44.82 28.66 428 0 7.740000  
## 3497 614 20.96 55.50 18.82 215 0 4.430000  
## 3965 257 9.00 13.21 71.40 500 0 34.980000  
## 3974 460 5.29 15.87 74.04 317 0 58.200000  
## 3976 484 4.50 22.63 65.67 557 0 41.740000  
## 4156 177 16.36 11.90 0.00 481 32 0.000000  
## 4169 249 11.04 13.25 21.18 421 28 2.500000  
## 4183 262 14.19 18.00 9.64 870 13 7.710000  
## 4184 217 24.58 12.37 0.00 918 82 0.000000  
## 4230 208 24.62 11.45 0.00 505 142 0.000000  
## 4231 185 20.86 10.45 0.54 414 61 0.430000  
## 4289 242 21.39 12.28 11.47 344 138 0.800000  
## 4479 318 13.50 22.01 21.26 751 0 2.470000  
## 4480 599 28.03 52.50 15.26 420 0 4.180000  
## 4481 585 23.68 49.66 21.51 679 0 4.180000  
## 4488 589 24.06 49.94 21.57 486 0 8.410000  
## 4489 588 25.09 50.39 19.56 459 0 9.220000  
## 4497 257 18.53 18.16 9.84 888 0 0.000000  
## 4533 650 24.80 54.89 14.23 447 0 3.340000  
## 4534 520 25.90 34.00 35.65 540 0 9.280000  
## 4536 591 25.72 50.81 18.75 420 0 10.470000  
## 4537 593 26.06 51.47 17.69 366 0 10.940000  
## 4544 588 21.93 49.54 23.98 476 0 6.500000  
## 5099 365 6.20 16.50 48.50 942 1 3.480000  
## 5110 418 7.00 12.20 69.50 817 2 20.340000  
## 5161 428 5.90 15.60 73.00 825 0 38.300000  
## 5162 436 4.80 12.00 77.70 596 0 42.520000  
## 5164 437 4.40 13.80 74.60 657 0 46.620000  
## 5165 416 3.40 11.70 79.30 656 0 57.590000  
## 5167 426 4.50 10.90 78.00 664 0 54.510000  
## 5169 432 4.40 11.60 78.10 657 2 43.330000  
## 5170 446 6.90 13.80 74.10 482 0 13.930000  
## 5172 433 6.60 14.20 72.40 690 2 29.660000  
## 5176 469 5.61 19.78 70.67 503 0 41.010000  
## 5177 481 3.60 26.40 66.10 326 0 63.400000  
## 5178 497 4.33 24.52 68.20 351 0 46.000000  
## 5183 484 5.80 23.20 66.50 257 0 41.560000  
## 5186 430 5.60 12.80 73.80 459 0 17.600000  
## 5187 450 6.20 18.10 68.70 383 0 24.660000  
## 5193 477 9.60 23.60 58.90 415 1 31.830000  
## 5197 478 8.80 21.10 65.60 368 0 35.440000  
## 5198 401 4.10 13.60 68.00 338 2 47.560000  
## 5201 450 3.90 16.80 73.40 406 0 39.810000  
## 5202 461 4.50 22.10 67.70 243 0 23.530000  
## 5203 449 4.80 18.00 69.90 406 0 31.650000  
## 5206 431 4.10 13.00 76.80 281 0 34.170000  
## 5207 478 5.10 21.10 67.90 357 51 37.700000  
## 5209 484 4.70 23.10 65.60 468 32 23.960000  
## 5211 483 4.50 20.00 72.10 349 0 39.300000  
## 5212 558 7.40 38.50 45.70 253 0 0.750000  
## 5213 441 5.00 15.20 73.60 388 51 37.500000  
## 5215 489 10.93 22.74 59.42 973 3 4.530000  
## 5216 496 12.41 25.12 56.74 913 0 6.980000  
## 5224 455 7.60 15.80 69.70 592 11 16.440000  
## 5230 504 6.60 25.83 61.37 865 0 7.450000  
## 5231 477 9.30 21.10 61.70 888 2 3.180000  
## 5232 494 11.47 24.54 58.38 901 0 10.500000  
## 5233 456 8.95 17.36 67.35 918 0 13.800000  
## 5236 427 10.58 14.13 69.55 704 0 1.190000  
## 5238 406 8.20 21.00 45.80 347 67 11.260000  
## 5240 414 9.20 20.90 47.00 361 57 11.350000  
## 5243 403 7.00 22.40 44.60 371 21 19.780000  
## 5244 374 8.00 21.90 37.20 322 23 6.950000  
## 5245 371 5.40 18.50 47.80 354 114 27.530000  
## 5246 430 7.10 25.20 45.70 298 46 25.870000  
## 5247 418 5.87 23.55 45.63 557 9 16.280000  
## 5248 452 4.93 25.25 51.33 326 19 26.650000  
## 5250 417 4.50 19.90 57.40 397 57 31.920000  
## 5251 360 6.30 19.30 42.60 427 20 21.580000  
## 5252 412 3.10 18.30 59.50 345 11 35.110000  
## 5253 361 6.40 24.50 30.00 309 24 14.550000  
## 5254 399 6.21 19.10 50.64 316 30 19.520000  
## 5255 340 5.90 18.70 39.00 240 26 21.100000  
## 5256 262 6.40 15.70 24.20 337 127 6.600000  
## 5288 494 4.20 24.90 65.20 571 0 38.340000  
## 5292 508 6.50 28.59 56.24 467 0 4.230000  
## 5310 372 6.20 16.40 50.90 304 66 31.730000  
## 5313 467 7.08 20.83 62.72 389 0 1.230000  
## 5315 391 4.67 10.56 69.23 334 0 28.590000  
## 5338 506 5.10 31.10 54.40 672 1 22.100000  
## 5341 531 3.70 36.20 50.20 515 39 7.330000  
## 5342 469 5.70 30.80 42.30 482 0 0.150000  
## 5361 502 7.40 25.30 61.00 216 0 1.790000  
## 5368 503 10.10 25.30 58.20 458 13 0.280000  
## 5468 501 5.10 24.83 64.30 330 0 18.130000  
## 5475 444 9.34 13.37 71.52 866 0 15.010000  
## 5478 374 7.12 17.12 47.84 510 59 24.900000  
## 5480 367 9.42 11.58 56.38 228 30 12.500000  
## 5488 350 8.36 16.61 41.72 544 0 3.690000  
## 5489 436 4.72 24.36 49.59 305 3 25.420000  
## 5494 334 4.41 18.52 37.43 265 66 22.050000  
## 5497 408 10.42 20.83 44.83 750 10 2.080000  
## 5509 518 6.03 28.41 63.01 545 0 1.160000  
## 5513 499 7.70 22.60 65.10 950 0 4.830000  
## 5514 565 5.83 37.11 52.38 910 7 2.870000  
## 5515 446 8.50 15.64 71.86 635 0 0.610000  
## 5519 471 10.10 19.80 64.40 294 0 28.570000  
## 5522 479 11.00 21.40 63.70 278 0 33.960000  
## 5528 508 10.20 31.10 53.40 193 12 23.740000  
## 5530 506 17.31 25.58 51.62 413 0 3.000000  
## 5536 431 3.80 12.80 79.10 206 5 53.190000  
## 5539 490 7.70 32.40 52.80 750 0 7.050000  
## 5541 502 4.56 26.14 64.90 411 0 0.630000  
## 5550 489 7.79 23.36 65.56 421 0 1.000000  
## 5561 459 5.40 18.90 72.90 230 0 45.900000  
## 5575 529 18.30 29.80 46.88 250 1 38.300000  
## 5587 482 8.78 23.98 62.68 225 6 47.190000  
## 5600 459 5.40 21.60 64.80 230 0 54.000000  
## 5607 462 7.70 23.00 65.50 193 7 46.200000  
## 5631 468 2.50 19.33 70.97 203 12 51.900000  
## 5635 486 7.57 18.98 71.24 445 12 51.330000  
## 5637 515 10.24 30.53 55.36 357 6 47.170000  
## 5638 497 12.46 24.77 59.86 194 0 53.250000  
## 5642 491 7.53 23.85 61.51 239 13 50.470000  
## 5645 436 2.60 12.75 77.77 194 5 66.890000  
## 5646 502 4.91 24.85 64.80 198 7 48.250000  
## 5647 536 9.18 32.67 54.15 226 6 36.130000  
## 5648 494 8.04 23.68 63.23 299 12 48.860000  
## 5700 433 1.50 24.00 52.70 195 0 40.000000  
## 5718 521 9.53 31.34 55.38 264 6 40.330000  
## 5765 434 1.00 11.36 81.84 682 0 80.540000  
## 5818 559 4.45 38.41 52.02 388 0 1.140000  
## 5819 542 6.56 36.40 50.81 480 0 0.370000  
## 5823 522 6.70 34.40 53.30 633 0 0.220000  
## 5829 471 7.10 20.80 66.90 492 0 0.220000  
## 5833 432 8.50 12.10 72.35 847 1 7.290000  
## 5843 498 2.30 24.90 68.10 342 0 3.820000  
## 5856 558 5.76 35.76 54.10 896 4 2.760000  
## 5908 495 8.93 23.21 63.90 321 9 53.570000  
## 5920 542 9.53 31.34 55.53 264 5 40.330000  
## 5997 405 9.66 10.63 67.14 677 0 8.229355  
## 6022 527 8.38 30.76 57.54 439 0 0.260000  
## 6027 521 10.33 31.72 51.90 378 0 0.250000  
## 6103 312 11.13 20.77 21.05 672 161 0.950000  
## 6107 314 3.76 16.12 38.44 290 0 0.690000  
## 6109 226 11.34 12.37 17.33 342 33 4.000000  
## 6114 257 15.38 11.76 22.61 605 38 4.990000  
## 6141 214 6.08 10.83 23.03 380 24 3.810000  
## 6179 253 9.32 10.47 30.45 448 20 7.730000  
## 6188 267 7.93 12.95 29.71 628 36 8.820000  
## 6189 260 12.48 16.13 16.32 563 31 0.800000  
## 6593 527 8.69 29.97 55.71 771 0 0.540000  
## 6594 415 25.00 12.50 50.50 238 6 28.750000  
## 6595 386 21.91 10.79 50.30 383 4 28.710000  
## 6599 403 20.75 12.19 52.49 386 0 16.900000  
## 6604 528 8.69 30.00 55.69 771 0 0.540000  
## 6605 531 2.28 29.59 63.84 202 0 0.920000  
## 6606 499 6.72 22.74 66.89 305 0 1.210000  
## 6607 517 4.13 29.81 57.97 246 0 9.750000  
## 6608 422 30.00 14.00 45.00 450 8 27.000000  
## 6610 429 18.57 15.71 53.26 293 0 17.140000  
## 6612 412 5.55 12.50 69.40 312 0 20.800000  
## 6614 457 11.79 15.20 68.26 854 0 4.760000  
## 6615 455 8.60 20.00 60.13 486 3 34.000000  
## 6617 473 5.32 23.30 60.43 966 0 4.040000  
## 6618 446 15.00 15.00 62.78 400 0 20.000000  
## 6621 451 12.34 15.14 66.36 233 0 6.020000  
## 6622 403 9.38 10.93 66.72 195 0 32.450000  
## 6626 487 9.14 22.86 61.14 414 0 33.140000  
## 6627 423 5.71 11.43 74.29 271 0 40.000000  
## 6628 415 5.71 11.43 72.27 286 0 42.860000  
## 6629 480 7.52 20.42 64.96 269 0 37.610000  
## 6670 211 1.00 16.70 13.30 667 7 4.250000  
## 6792 209 23.19 12.95 0.00 870 67 0.000000  
## 6852 390 25.00 32.00 1.00 670 15 1.000000  
## 6858 431 1.90 15.70 73.40 229 0 73.400000  
## 6860 536 9.60 31.20 54.10 193 12 23.630000  
## 6863 529 10.16 29.32 56.89 213 7 47.150000  
## 6865 465 0.00 53.00 0.00 581 54 0.000000  
## 6867 310 28.20 21.60 0.70 564 65 0.560000  
## 6871 200 0.40 13.00 27.00 838 0 25.920000  
## 6872 307 22.70 23.00 0.70 878 84 0.000000  
## 6873 322 5.95 31.79 3.06 773 0 0.850000  
## 6877 550 7.30 33.30 56.00 266 6 53.000000  
## 6884 407 13.70 37.63 2.36 689 66 0.000000  
## 6898 241 18.60 16.80 2.60 957 65 0.000000  
## 6899 534 0.00 52.00 16.70 542 0 16.700000  
## 6902 406 9.30 11.00 72.70 314 0 15.300000  
## 6908 469 5.00 18.20 71.40 634 0 5.010000  
## 6911 590 24.00 49.90 21.83 203 0 9.290000  
## 6913 271 24.70 17.60 3.50 600 63 3.500000  
## 6916 450 1.00 50.00 1.00 607 71 0.000000  
## 6918 390 0.90 33.40 23.80 710 26 20.110000  
## 6919 427 1.90 43.33 7.36 867 40 6.670000  
## 6934 464 9.80 17.60 66.70 251 0 27.520000  
## 6939 224 23.64 12.73 3.64 709 0 0.000000  
## 6940 290 23.00 18.00 9.00 490 0 0.800000  
## 6941 233 19.61 13.73 7.70 471 0 0.000000  
## 6942 189 17.78 11.11 4.44 711 0 2.220000  
## 6944 290 23.00 18.00 9.00 490 0 0.800000  
## 6969 201 7.85 15.28 8.13 470 54 5.820000  
## 6971 295 7.10 28.60 3.50 505 90 3.500000  
## 6985 263 0.90 19.00 23.90 837 26 4.340000  
## 6986 326 1.80 35.00 2.00 905 4 2.000000  
## 6988 257 9.00 13.21 71.40 500 0 34.980000  
## 6996 221 27.40 12.41 0.00 996 81 0.000000  
## 7002 310 11.70 28.40 2.00 682 56 0.000000  
## 7011 509 1.96 29.10 59.94 819 0 59.000000  
## 7015 234 21.28 12.77 8.51 400 0 0.000000  
## 7026 312 12.00 28.51 1.80 311 61 0.000000  
## 7032 465 8.70 15.20 73.40 856 3 0.530000  
## 7039 688 0.00 77.80 0.30 486 0 0.300000  
## 7040 390 0.90 33.40 23.90 711 0 6.400000  
## Calcium Iron Potassium VitaminC VitaminE VitaminD HighSodium HighCalories  
## 1 24 0.02 24.000 0.0 2.32 1.5 1 1  
## 2 24 0.16 26.000 0.0 2.32 1.5 1 1  
## 5 674 0.43 136.000 0.0 0.26 0.5 1 1  
## 6 184 0.50 152.000 0.0 0.24 0.5 1 1  
## 7 388 0.33 187.000 0.0 0.21 0.4 1 1  
## 9 721 0.68 98.000 0.0 0.29 0.6 1 1  
## 11 685 0.76 127.000 0.0 0.28 0.6 1 1  
## 17 98 0.38 138.000 0.0 0.29 0.6 1 1  
## 18 731 0.44 188.000 0.0 0.24 0.5 1 1  
## 20 550 0.23 64.000 0.0 0.27 0.6 1 1  
## 22 700 0.24 121.000 0.0 0.24 0.5 1 1  
## 23 1011 0.17 81.000 0.0 0.28 0.6 1 1  
## 24 497 0.13 128.000 0.0 0.23 0.5 1 1  
## 25 746 0.72 81.000 0.0 0.26 0.6 1 1  
## 26 505 0.44 76.000 0.0 0.19 0.4 1 1  
## 27 575 0.20 75.000 0.0 0.21 0.5 1 1  
## 28 782 0.22 84.000 0.0 0.14 0.3 1 1  
## 29 731 0.25 95.000 0.0 0.37 0.4 1 1  
## 30 717 0.41 134.000 0.0 0.26 0.6 1 1  
## 34 650 0.43 136.000 0.0 0.24 0.5 1 1  
## 35 756 0.52 138.000 0.0 0.23 0.5 1 1  
## 40 791 0.20 77.000 0.0 0.38 0.5 1 1  
## 82 912 0.47 1.330 8.6 0.58 10.5 1 1  
## 116 62 1.89 152.000 0.0 1.31 2.2 1 0  
## 121 231 6.79 493.000 0.0 3.88 8.0 1 1  
## 130 326 3.16 744.000 0.8 1.26 0.0 1 1  
## 138 895 1.88 48.000 0.0 0.31 0.7 1 1  
## 139 298 1.62 158.000 0.0 0.26 0.5 1 1  
## 140 140 1.90 26.000 0.0 0.18 0.4 1 1  
## 142 610 0.40 455.000 0.1 0.11 0.0 1 1  
## 144 311 0.35 142.000 0.6 0.09 1.0 1 0  
## 146 661 0.51 86.000 0.0 0.24 0.5 1 1  
## 147 651 0.47 52.000 0.0 0.26 0.5 1 1  
## 158 905 0.13 93.000 0.0 0.16 0.3 1 1  
## 180 5 0.63 90.000 0.0 0.41 0.0 1 1  
## 181 756 0.52 138.000 0.0 0.15 0.3 1 1  
## 182 1146 0.13 93.000 0.0 0.17 0.4 1 1  
## 185 912 0.47 1.330 8.6 0.58 0.5 1 1  
## 195 500 8.57 1.129 30.0 7.07 5.0 1 1  
## 196 1200 12.00 840.000 42.0 9.45 7.0 1 1  
## 200 566 0.20 129.000 0.0 0.37 2.7 1 1  
## 215 659 0.59 85.000 0.0 0.25 0.5 1 1  
## 230 632 11.83 1.020 0.2 8.82 0.0 1 1  
## 283 440 8.80 590.000 38.0 9.80 9.3 1 1  
## 296 17 1.18 107.000 0.0 4.00 0.1 1 1  
## 297 14 0.20 9.000 0.0 2.06 0.1 1 1  
## 298 11 0.73 107.000 4.8 1.00 0.0 1 0  
## 301 27 0.90 202.000 1.5 1.00 0.0 1 0  
## 302 7 0.22 12.000 0.0 5.22 0.2 1 1  
## 304 0 0.00 10.000 0.0 2.00 0.0 1 1  
## 306 0 0.01 10.000 0.0 5.00 0.0 1 1  
## 321 24 0.80 67.000 3.6 5.00 0.0 1 1  
## 322 6 0.02 34.000 0.1 13.45 0.0 1 1  
## 377 10 0.04 22.000 0.1 3.88 0.0 1 1  
## 388 24 0.04 36.000 0.1 4.47 0.0 1 1  
## 389 48 1.09 71.000 0.0 1.58 1.0 1 1  
## 391 0 0.00 0.000 0.0 0.59 2.5 1 1  
## 393 3 0.06 18.000 0.2 9.00 0.0 1 1  
## 394 3 0.00 17.000 0.1 15.43 0.0 1 1  
## 395 21 0.00 30.000 0.1 5.00 0.0 1 1  
## 396 21 0.00 30.000 0.1 21.12 0.0 1 1  
## 397 21 0.00 30.000 0.1 5.00 0.0 1 1  
## 403 20 0.01 25.000 0.1 5.00 0.0 1 1  
## 404 50 0.02 64.000 0.2 5.00 0.0 1 1  
## 409 0 0.00 25.000 0.0 4.50 0.0 1 0  
## 416 8 0.32 40.000 0.0 3.07 0.0 1 1  
## 439 66 0.00 94.000 0.4 4.60 0.0 1 1  
## 459 6 0.02 34.000 0.1 13.45 10.7 1 1  
## 460 3 0.06 18.000 0.2 9.00 10.7 1 1  
## 461 3 0.00 17.000 0.1 15.43 10.7 1 1  
## 462 21 0.00 30.000 0.1 5.00 10.7 1 1  
## 463 21 0.00 30.000 0.1 21.12 10.7 1 1  
## 464 21 0.00 30.000 0.1 5.00 10.7 1 1  
## 472 12 0.29 20.000 0.2 3.53 0.1 1 1  
## 473 59 0.25 61.000 0.3 2.36 0.1 1 1  
## 483 21 1.37 185.000 0.0 1.24 0.2 1 1  
## 534 20 1.25 201.000 0.0 1.06 0.1 1 1  
## 758 14 2.20 275.000 0.0 0.93 0.1 1 1  
## 783 31 1.18 265.000 0.0 1.27 0.3 1 1  
## 787 18 1.14 218.000 0.0 0.40 0.2 1 1  
## 966 118 0.33 156.000 0.8 0.29 1.2 1 0  
## 967 111 0.50 149.000 0.7 0.38 1.2 1 0  
## 1324 27 1.73 244.000 0.6 0.19 0.9 1 1  
## 1327 6 6.40 38.000 0.0 0.13 1.3 1 1  
## 1328 41 1.15 270.000 3.2 0.38 0.0 1 1  
## 1330 85 1.21 315.000 0.8 0.00 0.8 1 1  
## 1333 28 0.53 348.000 0.0 0.26 1.1 1 1  
## 1344 74 1.17 202.000 0.0 0.22 0.5 1 0  
## 1350 16 1.50 31.000 0.0 0.25 0.9 1 0  
## 1353 17 0.82 300.000 0.0 0.22 1.1 1 1  
## 1354 11 0.66 199.000 0.0 0.57 1.1 1 1  
## 1367 10 9.19 95.000 10.0 0.98 0.0 1 0  
## 1377 9 1.11 248.000 0.7 0.19 1.3 1 1  
## 1378 13 1.36 294.000 0.7 0.55 0.7 1 1  
## 1379 10 1.13 189.000 0.0 0.22 0.7 1 1  
## 1380 31 1.80 207.000 0.0 0.00 0.4 1 0  
## 1381 10 0.61 183.000 1.0 2.20 0.2 1 0  
## 1388 11 0.59 483.000 0.0 0.25 1.1 1 1  
## 1389 12 0.75 179.000 0.0 0.13 1.1 1 1  
## 1397 10 0.88 101.000 0.0 0.22 0.6 1 1  
## 1482 0 0.64 564.000 43.0 0.24 0.6 1 1  
## 1495 32 1.07 229.000 0.5 0.19 0.4 1 1  
## 1524 7 1.89 158.000 2.5 0.15 0.3 1 0  
## 1526 137 0.92 307.000 0.7 0.53 0.8 1 1  
## 1527 15 1.53 234.000 0.7 0.49 0.6 1 1  
## 1529 11 1.57 258.000 0.0 0.24 0.5 1 1  
## 1549 60 3.70 450.000 31.0 0.56 2.0 1 1  
## 1592 313 14.06 141.000 18.8 1.92 3.1 1 1  
## 1673 345 15.52 224.000 20.7 2.61 3.3 1 1  
## 1781 95 4.03 446.000 61.5 0.72 0.0 1 1  
## 1801 356 16.70 158.000 35.4 0.98 4.0 1 1  
## 1819 410 5.99 254.000 15.4 0.42 1.7 1 1  
## 1842 45 3.46 298.000 0.0 0.55 1.9 1 1  
## 1859 714 12.86 143.000 17.1 1.79 2.9 1 1  
## 2085 88 3.30 8.000 0.9 1.65 0.0 1 0  
## 2368 6 0.48 208.000 0.0 0.27 1.6 1 1  
## 2392 5 0.39 105.000 0.0 0.00 0.2 1 1  
## 2499 6 0.53 195.000 0.0 0.35 1.9 1 1  
## 2500 4 0.50 174.000 0.0 0.76 1.2 1 1  
## 2867 14 0.55 576.000 13.0 0.01 0.0 1 1  
## 3069 165 1.19 231.000 7.3 0.93 0.8 1 0  
## 3078 32 1.67 622.000 27.6 0.23 0.3 1 1  
## 3422 11 1.51 361.000 0.0 0.00 0.0 1 1  
## 3465 15 1.92 337.000 0.7 0.39 0.0 1 1  
## 3478 52 8.07 788.000 1.8 0.56 0.0 1 1  
## 3479 131 7.78 406.000 0.0 0.25 0.0 1 1  
## 3480 70 3.80 850.000 1.4 26.10 0.0 1 1  
## 3481 87 4.28 483.000 1.1 36.33 0.0 1 1  
## 3483 64 4.12 576.000 2.7 22.89 0.0 1 1  
## 3484 267 3.83 712.000 0.0 23.80 0.0 1 1  
## 3485 291 3.68 699.000 0.0 25.97 0.0 1 1  
## 3486 45 6.00 565.000 0.0 0.92 0.0 1 1  
## 3487 43 6.05 632.000 0.3 0.92 0.0 1 1  
## 3488 43 5.03 546.000 0.0 0.92 0.0 1 1  
## 3489 70 2.65 363.000 0.7 0.57 0.0 1 1  
## 3490 70 3.70 597.000 0.4 10.94 0.0 1 1  
## 3491 117 2.61 632.000 0.5 7.82 0.0 1 1  
## 3492 106 2.57 544.000 0.5 8.20 0.0 1 1  
## 3493 72 2.80 424.000 0.7 1.30 0.0 1 1  
## 3494 67 2.47 392.000 0.7 2.53 0.0 1 1  
## 3495 107 4.03 1.007 3.0 2.42 0.0 1 1  
## 3497 347 3.49 748.000 0.0 24.21 0.0 1 1  
## 3965 60 3.06 1.856 0.0 0.09 0.0 1 1  
## 3974 271 0.00 1.033 0.6 0.00 0.0 1 1  
## 3976 36 0.36 1.184 0.0 1.65 0.0 1 1  
## 4156 26 0.49 293.000 0.0 0.22 13.3 1 0  
## 4169 26 1.01 216.000 0.0 1.15 0.4 1 1  
## 4183 77 1.22 69.000 0.0 1.71 2.8 1 1  
## 4184 84 1.51 447.000 1.0 1.54 2.2 1 0  
## 4230 382 2.92 397.000 0.0 2.04 4.8 1 0  
## 4231 240 2.30 341.000 1.0 1.38 4.8 1 0  
## 4289 67 1.26 225.000 1.5 1.30 0.1 1 1  
## 4479 55 1.01 180.000 0.0 4.10 0.0 1 1  
## 4480 61 1.52 726.000 0.8 6.94 0.0 1 1  
## 4481 54 2.26 658.000 0.0 7.80 0.0 1 1  
## 4488 45 1.90 745.000 0.0 6.30 0.0 1 1  
## 4489 43 1.87 649.000 0.0 8.99 0.0 1 1  
## 4497 63 3.72 231.000 0.0 2.10 0.0 1 1  
## 4533 72 2.84 818.000 0.0 8.06 0.0 1 1  
## 4534 35 1.90 669.000 0.0 9.04 0.0 1 1  
## 4536 43 16.60 667.000 0.0 43.20 0.0 1 1  
## 4537 45 17.50 744.000 0.0 43.20 0.0 1 1  
## 4544 54 2.16 592.000 0.0 5.94 0.0 1 1  
## 5099 49 3.30 224.000 0.0 1.32 0.0 1 1  
## 5110 57 2.50 113.000 0.1 0.16 0.0 1 1  
## 5161 150 4.50 330.000 0.0 1.11 0.0 1 1  
## 5162 148 1.90 87.000 0.2 0.12 0.0 1 1  
## 5164 94 4.70 341.000 0.2 0.20 0.0 1 1  
## 5165 76 1.62 123.000 0.0 0.85 0.0 1 1  
## 5167 192 1.39 117.000 0.3 0.87 0.0 1 1  
## 5169 135 1.50 82.000 0.2 0.92 0.0 1 1  
## 5170 43 2.75 100.000 0.0 0.12 0.0 1 1  
## 5172 31 4.01 210.000 0.0 0.72 0.0 1 1  
## 5176 22 8.68 215.000 0.0 2.61 0.0 1 1  
## 5177 35 3.13 240.000 0.0 0.22 0.0 1 1  
## 5178 16 7.80 137.000 0.0 1.89 0.0 1 1  
## 5183 58 3.58 209.000 0.0 0.27 0.0 1 1  
## 5186 74 6.43 346.000 0.0 0.11 0.0 1 1  
## 5187 37 2.58 142.000 0.5 0.26 0.0 1 1  
## 5193 35 2.51 167.000 0.0 2.20 0.0 1 1  
## 5197 53 2.60 192.000 0.1 1.87 0.0 1 1  
## 5198 46 2.29 140.000 0.4 2.22 0.0 1 1  
## 5201 46 3.50 199.000 0.0 1.06 0.0 1 1  
## 5202 98 4.72 295.000 0.0 1.82 0.0 1 1  
## 5203 54 4.07 175.000 0.3 1.52 0.0 1 1  
## 5206 25 4.01 104.000 0.0 0.99 0.0 1 1  
## 5207 21 2.14 63.000 0.1 0.27 0.1 1 1  
## 5209 90 1.84 163.000 0.0 0.21 0.0 1 1  
## 5211 27 2.21 91.000 0.0 1.60 0.0 1 1  
## 5212 10 2.60 62.000 0.0 0.55 0.0 1 1  
## 5213 48 2.38 97.000 0.0 0.23 0.0 1 1  
## 5215 136 4.88 156.000 0.0 2.19 0.0 1 1  
## 5216 50 2.72 218.000 0.0 2.37 0.0 1 1  
## 5224 172 3.58 114.000 0.2 1.22 0.0 1 1  
## 5230 95 3.81 111.000 0.0 3.58 0.0 1 1  
## 5231 257 2.39 429.000 0.1 0.22 0.0 1 1  
## 5232 81 2.77 215.000 0.0 2.06 0.0 1 1  
## 5233 81 4.69 207.000 0.0 1.11 0.0 1 1  
## 5236 36 3.34 345.000 0.0 1.41 0.0 1 1  
## 5238 37 2.03 118.000 0.2 0.84 0.0 1 1  
## 5240 53 2.15 132.000 0.2 1.44 0.0 1 1  
## 5243 71 1.96 125.000 0.1 0.39 0.0 1 1  
## 5244 35 1.60 98.000 0.1 0.35 0.0 1 1  
## 5245 46 1.77 83.000 3.9 0.34 0.0 1 1  
## 5246 94 1.80 95.000 1.7 0.82 0.0 1 1  
## 5247 25 3.00 113.000 1.3 1.89 0.0 1 1  
## 5248 24 4.00 201.000 1.3 2.02 0.0 1 1  
## 5250 213 2.27 106.000 0.1 0.21 0.0 1 1  
## 5251 49 1.10 148.000 0.2 1.70 0.0 1 1  
## 5252 26 2.42 78.000 0.0 0.16 0.0 1 1  
## 5253 25 1.83 80.000 0.0 0.29 0.0 1 1  
## 5254 46 3.75 100.000 1.2 1.43 0.0 1 1  
## 5255 25 1.76 79.000 0.0 0.43 0.0 1 1  
## 5256 63 1.18 117.000 0.3 2.01 1.0 1 1  
## 5288 21 2.17 88.000 0.0 2.32 0.4 1 1  
## 5292 21 2.80 114.000 0.0 0.54 0.0 1 1  
## 5310 72 1.60 111.000 2.0 1.99 0.0 1 1  
## 5313 101 1.86 223.000 0.0 0.69 0.0 1 1  
## 5315 11 3.85 75.000 0.0 0.79 0.0 1 1  
## 5338 30 3.00 168.000 0.0 2.83 0.4 1 1  
## 5341 42 1.63 79.000 0.1 3.06 0.5 1 1  
## 5342 9 2.57 59.000 0.0 0.28 0.0 1 1  
## 5361 120 3.60 355.000 0.0 2.03 0.0 1 1  
## 5368 151 4.77 106.000 0.0 0.30 0.0 1 1  
## 5468 29 2.60 113.000 0.0 1.85 0.0 1 1  
## 5475 80 5.02 210.000 0.0 1.18 0.0 1 1  
## 5478 73 0.98 350.000 0.0 0.96 0.3 1 1  
## 5480 86 2.87 103.000 1.2 0.29 0.0 1 1  
## 5488 27 3.05 103.000 0.2 1.38 0.2 1 1  
## 5489 164 1.46 96.000 0.3 1.29 0.0 1 1  
## 5494 35 0.95 68.000 0.0 0.95 0.3 1 1  
## 5497 90 2.49 84.000 0.0 1.49 0.1 1 1  
## 5509 164 1.32 135.000 0.0 1.36 0.0 1 1  
## 5513 29 3.72 143.000 1.8 2.69 0.0 1 1  
## 5514 58 1.75 189.000 0.0 4.70 0.0 1 1  
## 5515 9 1.67 278.000 0.0 1.98 0.0 1 1  
## 5519 61 2.95 336.000 0.9 2.09 0.0 1 1  
## 5522 39 2.50 305.000 0.0 5.52 0.0 1 1  
## 5528 108 1.45 339.000 0.6 4.17 0.0 1 1  
## 5530 54 2.44 328.000 0.3 5.60 0.0 1 1  
## 5536 43 1.74 109.000 0.0 1.20 0.0 1 1  
## 5539 50 1.94 1.261 33.9 6.17 0.0 1 1  
## 5541 29 1.11 760.000 12.0 2.18 0.0 1 1  
## 5550 174 2.32 215.000 0.0 4.29 0.0 1 1  
## 5561 36 0.79 220.000 0.0 1.72 0.0 1 1  
## 5575 110 1.70 505.000 0.3 1.36 0.0 1 1  
## 5587 73 1.20 347.000 0.4 2.70 0.0 1 1  
## 5600 47 0.63 249.000 0.0 0.93 0.0 1 1  
## 5607 69 0.50 259.000 0.0 2.21 0.0 1 1  
## 5631 76 0.34 163.000 0.7 0.42 0.0 1 1  
## 5635 27 1.22 168.000 0.0 2.56 0.0 1 1  
## 5637 78 1.21 343.000 0.3 0.15 0.0 1 1  
## 5638 69 0.49 359.000 0.0 0.99 0.0 1 1  
## 5642 93 0.72 323.000 0.5 1.50 0.0 1 1  
## 5645 54 0.67 133.000 0.2 0.98 0.0 1 1  
## 5646 106 0.81 186.000 0.6 0.74 0.0 1 1  
## 5647 75 1.32 264.000 0.3 3.42 0.0 1 1  
## 5648 118 1.13 303.000 0.9 1.27 0.0 1 1  
## 5700 13 0.54 186.000 0.2 1.09 0.0 1 1  
## 5718 70 1.30 295.000 0.6 2.77 0.0 1 1  
## 5765 8 0.57 133.000 0.3 0.07 0.0 1 1  
## 5818 27 0.82 751.000 8.2 11.40 0.0 1 1  
## 5819 24 1.61 1.642 18.6 6.74 0.0 1 1  
## 5823 18 2.27 1.237 47.3 9.11 0.0 1 1  
## 5829 21 1.35 1.744 25.7 5.47 0.0 1 1  
## 5833 357 1.28 286.000 21.4 4.25 0.0 1 1  
## 5843 60 1.20 755.000 5.0 11.34 0.0 1 1  
## 5856 58 1.10 197.000 0.0 5.12 0.0 1 1  
## 5908 36 0.64 257.000 0.0 2.56 0.0 1 1  
## 5920 70 1.30 295.000 0.6 2.77 0.0 1 1  
## 5997 205 7.05 100.000 0.0 1.64 0.0 1 1  
## 6022 20 4.73 120.000 0.0 3.48 0.0 1 1  
## 6027 21 1.76 89.000 0.0 3.29 0.0 1 1  
## 6103 51 1.90 149.000 0.0 0.95 0.5 1 1  
## 6107 13 1.37 550.000 2.7 0.78 0.0 1 1  
## 6109 46 2.99 188.000 0.9 0.15 0.1 1 0  
## 6114 92 1.32 256.000 3.8 0.50 0.2 1 1  
## 6141 29 1.10 124.000 0.3 0.16 0.1 1 0  
## 6179 181 2.08 204.000 0.6 0.69 0.2 1 1  
## 6188 56 1.86 136.000 0.5 0.46 0.4 1 1  
## 6189 18 0.82 219.000 0.0 1.18 0.3 1 1  
## 6593 20 2.36 219.000 0.0 1.76 0.0 1 1  
## 6594 625 10.13 188.000 75.0 16.88 3.8 1 1  
## 6595 754 16.31 351.000 489.9 27.53 4.5 1 1  
## 6599 886 14.20 412.000 68.0 64.25 3.1 1 1  
## 6604 20 2.36 219.000 0.0 4.47 0.0 1 1  
## 6605 9 0.97 786.000 32.1 5.04 0.0 1 1  
## 6606 102 1.34 208.000 0.0 2.97 0.0 1 1  
## 6607 79 1.64 1.266 12.1 8.16 0.0 1 1  
## 6608 200 3.60 250.000 120.0 24.00 0.0 1 1  
## 6610 0 3.39 415.000 0.0 7.14 0.0 1 1  
## 6612 417 2.03 199.000 0.1 1.52 0.0 1 1  
## 6614 17 4.59 129.000 0.0 6.93 0.0 1 1  
## 6615 136 1.49 320.000 0.2 7.60 0.0 1 1  
## 6617 52 1.55 838.000 4.9 4.84 0.0 1 1  
## 6618 0 2.70 545.000 0.0 2.30 0.0 1 1  
## 6621 24 5.05 140.000 0.0 0.81 0.0 1 1  
## 6622 65 5.65 328.000 0.2 3.72 0.8 1 1  
## 6626 57 1.44 390.000 0.3 6.89 0.0 1 1  
## 6627 286 1.03 168.000 0.0 1.70 0.0 1 1  
## 6628 116 8.71 189.000 0.1 2.66 0.0 1 1  
## 6629 65 1.16 231.000 0.3 4.19 0.1 1 1  
## 6670 26 0.25 68.000 2.3 1.68 0.0 1 0  
## 6792 55 0.55 390.000 0.0 0.42 1.2 1 0  
## 6852 705 0.70 55.000 0.0 0.28 0.0 1 1  
## 6858 1 0.03 902.000 0.0 0.26 0.0 1 1  
## 6860 108 1.45 339.000 0.6 4.59 0.0 1 1  
## 6863 88 1.06 330.000 0.5 1.26 0.0 1 1  
## 6865 6 0.04 6.000 0.0 9.20 0.0 1 1  
## 6867 705 0.72 81.000 0.0 0.19 0.4 1 1  
## 6871 11 0.40 79.000 0.0 2.86 0.0 1 0  
## 6872 32 1.62 337.000 1.1 0.39 2.0 1 1  
## 6873 53 0.27 66.000 0.0 2.40 0.0 1 1  
## 6877 130 1.31 309.000 1.0 2.71 0.0 1 1  
## 6884 15 1.12 212.000 0.0 0.22 0.9 1 1  
## 6898 18 1.12 204.000 0.0 0.25 0.4 1 1  
## 6899 0 0.00 30.000 0.0 5.00 0.0 1 1  
## 6902 39 17.60 342.000 0.2 0.76 2.0 1 1  
## 6908 125 0.80 721.000 0.0 2.18 0.0 1 1  
## 6911 41 1.90 747.000 0.0 9.05 0.0 1 1  
## 6913 529 0.41 134.000 0.0 0.15 0.3 1 1  
## 6916 28 0.09 37.000 0.1 5.70 0.0 1 1  
## 6918 14 0.20 9.000 0.0 3.08 0.1 1 1  
## 6919 34 0.35 58.000 0.2 4.60 0.0 1 1  
## 6934 60 3.18 326.000 1.0 0.82 0.0 1 1  
## 6939 35 3.27 54.000 0.0 2.68 0.0 1 0  
## 6940 95 2.00 600.000 0.0 3.95 0.0 1 1  
## 6941 33 1.41 98.000 0.0 1.92 0.0 1 1  
## 6942 41 1.80 200.000 0.0 3.00 0.0 1 0  
## 6944 95 2.00 600.000 0.0 3.45 0.0 1 1  
## 6969 148 0.17 247.000 0.0 0.27 0.3 1 0  
## 6971 71 1.13 112.000 0.0 0.77 0.5 1 1  
## 6985 14 0.26 24.000 0.0 3.07 0.0 1 1  
## 6986 4 0.27 108.000 8.8 4.00 0.0 1 1  
## 6988 60 3.06 1.856 0.0 0.09 0.0 1 1  
## 6996 24 1.46 266.000 0.0 0.17 0.1 1 0  
## 7002 12 1.40 155.000 0.0 0.19 0.7 1 1  
## 7011 18 0.06 909.000 0.0 0.26 0.0 1 1  
## 7015 42 3.83 300.000 0.0 1.95 0.0 1 1  
## 7026 20 1.43 166.000 0.0 0.17 0.9 1 1  
## 7032 159 1.63 272.000 0.2 3.53 0.0 1 1  
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## 7040 14 0.20 9.000 0.0 2.06 0.0 1 1  
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#install.packages("dplyr")  
#library(dplyr)

#### 12. Calculate the average amount of iron, for high and low protein foods. (8 points)

mean(USDAClean$Iron[USDAClean$HighProtein == 1],)

## [1] 3.082252

mean(USDAClean$Iron[USDAClean$HighProtein == 0],)

## [1] 2.847928

# 3.082252 Iron for High Protein  
# 2.847928 Iron for Low Protein

#### 13. Create a script for a “HealthCheck” program to detect unhealthy foods. Use the algorithm flowchart below as a basis for this script. (8 points)

# require(jpeg)  
# img<-readJPEG("HealthCheck.jpg")  
# plot(1:4, ty = 'n', ann = F, xaxt = 'n', yaxt = 'n')  
# rasterImage(img,1,1,4,4)

healthCheck <- function(arg1) {  
 # FALSE = healthy  
 # TRUE = unhealthy  
  
 return (prod(arg1));  
}

#### 14. Add a new variable called HealthCheck to the data frame using the output of the function. (8 points)

# True = Passed  
# False = Failed  
USDAClean$HealthCheck <- apply(USDAClean[,c("HighSodium","HighSugar","HighTotalFat")],1, function(x) as.logical(!healthCheck(x)))

#### 15. How many foods in the USDAclean data frame fail the HealthCheck? (8 points)

nrow(USDAClean[USDAClean$HealthCheck==FALSE,])

## [1] 130

# 130

#### 16. Save your final data frame as “USDAclean\_ [your last name].” (3 points)

write.csv(USDAClean,"USDAclean\_Lee.csv")

This is the end of Assignment 1

Ceni Babaoglu, PhD