CODE BOOK OF VARIABLES:

Variable No. 1 (Column 1): activity

This variable contains numbers from 1 to 6; each number is an ID of the activity:

ID	Activity
1	WALKING
2	WALKING_UPSTAIRS
3	WALKING_DOWNSTAIRS
4	SITTING
5	STANDING
6	LAYING

Variable No. 2 (Column 2): Subject

This variable contains numbers from 1 to 30; each number is an ID for a volunteer doing the test or train.

Variable No. 3 (Column 3): Average

This variable contains the average for this variable name (see No. 4); for an activity and a particular volunteer.

Variable No. 4 (Column 4): Variable

This variable contains the name of the measured variable; there are 561 possible names.

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  [1] "tBodyAcc-mean()-X"               "tBodyAcc-mean()-Y"
  [3] "tBodyAcc-mean()-Z"               "tBodyAcc-std()-X"
  [5] "tBodyAcc-std()-Y"               "tBodyAcc-std()-Z"
  [7] "tBodyAcc-mad()-X"                "tBodyAcc-mad()-Y"
  [9] "tBodyAcc-mad()-Z"                "tBodyAcc-max()-X"
 [11] "tBodyAcc-max()-Y"                "tBodyAcc-max()-Z"
 [13] "tBodyAcc-min()-X"                "tBodyAcc-min()-Y"
 [15] "tBodyAcc-min()-Z"                "tBodyAcc-sma()"
 [17] "tBodyAcc-energy()-X"             "tBodyAcc-energy()-Y"
 [19] "tBodyAcc-energy()-Z"             "tBodyAcc-iqr()-X"
 [21] "tBodyAcc-iqr()-Y"               "tBodyAcc-iqr()-Z"
 [23] "tBodyAcc-entropy()-X"            "tBodyAcc-entropy()-Y"
 [25] "tBodyAcc-entropy()-Z"            "tBodyAcc-arCoeff()-X,1"
 [27] "tBodyAcc-arCoeff()-X,2"          "tBodyAcc-arCoeff()-X,3"
 [29] "tBodyAcc-arCoeff()-X,4"          "tBodyAcc-arCoeff()-Y,1"
 [31] "tBodyAcc-arCoeff()-Y,2"          "tBodyAcc-arCoeff()-Y,3"
 [33] "tBodyAcc-arCoeff()-Y,4"          "tBodyAcc-arCoeff()-Z,1"
 [35] "tBodyAcc-arCoeff()-Z,2"          "tBodyAcc-arCoeff()-Z,3"
 [37] "tBodyAcc-arCoeff()-Z,4"          "tBodyAcc-correlation()-X,Y"
 [39] "tBodyAcc-correlation()-X,Z"      "tBodyAcc-correlation()-Y,Z"
 [41] "tGravityAcc-mean()-X"            "tGravityAcc-mean()-Y"
 [43] "tGravityAcc-mean()-Z"            "tGravityAcc-std()-X"
 [45] "tGravityAcc-std()-Y"            "tGravityAcc-std()-Z"
 [47] "tGravityAcc-mad()-X"             "tGravityAcc-mad()-Y"
 [49] "tGravityAcc-mad()-Z"             "tGravityAcc-max()-X"
 [51] "tGravityAcc-max()-Y"             "tGravityAcc-max()-Z"
 [53] "tGravityAcc-min()-X"            "tGravityAcc-min()-Y"
 [55] "tGravityAcc-min()-Z"            "tGravityAcc-sma()"
 [57] "tGravityAcc-energy()-X"          "tGravityAcc-energy()-Y"
 [59] "tGravityAcc-energy()-Z"          "tGravityAcc-iqr()-X"
 [61] "tGravityAcc-iqr()-Y"            "tGravityAcc-iqr()-Z"
 [63] "tGravityAcc-entropy()-X"         "tGravityAcc-entropy()-Y"
 [65] "tGravityAcc-entropy()-Z"         "tGravityAcc-arCoeff()-X,1"
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 [67] "tGravityAcc-arCoeff()-X,2"          "tGravityAcc-arCoeff()-X,3"
 [69] "tGravityAcc-arCoeff()-X,4"          "tGravityAcc-arCoeff()-Y,1"
 [71] "tGravityAcc-arCoeff()-Y,2"          "tGravityAcc-arCoeff()-Y,3"
 [73] "tGravityAcc-arCoeff()-Y,4"          "tGravityAcc-arCoeff()-Z,1"
 [75] "tGravityAcc-arCoeff()-Z,2"          "tGravityAcc-arCoeff()-Z,3"
 [77] "tGravityAcc-arCoeff()-Z,4"          "tGravityAcc-correlation()-X,Y"
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 [85] "tBodyAccJerk-std()-Y"              "tBodyAccJerk-std()-Z"
 [87] "tBodyAccJerk-mad()-X"               "tBodyAccJerk-mad()-Y"
 [89] "tBodyAccJerk-mad()-Z"               "tBodyAccJerk-max()-X"
 [91] "tBodyAccJerk-max()-Y"               "tBodyAccJerk-max()-Z"
 [93] "tBodyAccJerk-min()-X"               "tBodyAccJerk-min()-Y"
 [95] "tBodyAccJerk-min()-Z"               "tBodyAccJerk-sma()"
 [97] "tBodyAccJerk-energy()-X"            "tBodyAccJerk-energy()-Y"
 [99] "tBodyAccJerk-energy()-Z"            "tBodyAccJerk-iqr()-X"
[101] "tBodyAccJerk-iqr()-Y"              "tBodyAccJerk-iqr()-Z"
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[109] "tBodyAccJerk-arCoeff()-X,4"         "tBodyAccJerk-arCoeff()-Y,1"
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[113] "tBodyAccJerk-arCoeff()-Y,4"         "tBodyAccJerk-arCoeff()-Z,1"
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[135] "tBodyGyro-min()-Z"                 "tBodyGyro-sma()"
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[141] "tBodyGyro-iqr()-Y"                "tBodyGyro-iqr()-Z"
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[153] "tBodyGyro-arCoeff()-Y,4"           "tBodyGyro-arCoeff()-Z,1"
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[157] "tBodyGyro-arCoeff()-Z,4"           "tBodyGyro-correlation()-X,Y"
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[193] "tBodyGyroJerk-arCoeff()-Y,4"       "tBodyGyroJerk-arCoeff()-Z,1"
[195] "tBodyGyroJerk-arCoeff()-Z,2"       "tBodyGyroJerk-arCoeff()-Z,3"
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[199] "tBodyGyroJerk-correlation()-X,Z"    "tBodyGyroJerk-correlation()-Y,Z"
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[205] "tBodyAccMag-min()"                "tBodyAccMag-sma()"
[207] "tBodyAccMag-energy()"              "tBodyAccMag-iqr()"
[209] "tBodyAccMag-entropy()"             "tBodyAccMag-arCoeff()1"
[211] "tBodyAccMag-arCoeff()2"            "tBodyAccMag-arCoeff()3"
[213] "tBodyAccMag-arCoeff()4"            "tGravityAccMag-mean()"
[215] "tGravityAccMag-std()"             "tGravityAccMag-mad()"
[217] "tGravityAccMag-max()"              "tGravityAccMag-min()"
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 [221] "tGravityAccMag-iqr()"             "tGravityAccMag-entropy()"
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 [225] "tGravityAccMag-arCoeff()3"         "tGravityAccMag-arCoeff()4"
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 [229] "tBodyAccJerkMag-mad()"             "tBodyAccJerkMag-max()"
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 [233] "tBodyAccJerkMag-energy()"          "tBodyAccJerkMag-iqr()"
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 [237] "tBodyAccJerkMag-arCoeff()2"        "tBodyAccJerkMag-arCoeff()3"
 [239] "tBodyAccJerkMag-arCoeff()4"        "tBodyGyroMag-mean()"
 [241] "tBodyGyroMag-std()"               "tBodyGyroMag-mad()"
 [243] "tBodyGyroMag-max()"                "tBodyGyroMag-min()"
 [245] "tBodyGyroMag-sma()"                "tBodyGyroMag-energy()"
 [247] "tBodyGyroMag-iqr()"               "tBodyGyroMag-entropy()"
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 [263] "tBodyGyroJerkMag-arCoeff()2"       "tBodyGyroJerkMag-arCoeff()3"
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 [275] "fBodyAcc-max()-X"                  "fBodyAcc-max()-Y"
 [277] "fBodyAcc-max()-Z"                  "fBodyAcc-min()-X"
 [279] "fBodyAcc-min()-Y"                 "fBodyAcc-min()-Z"
 [281] "fBodyAcc-sma()"                   "fBodyAcc-energy()-X"
 [283] "fBodyAcc-energy()-Y"               "fBodyAcc-energy()-Z"
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 [287] "fBodyAcc-iqr()-Z"                 "fBodyAcc-entropy()-X"
 [289] "fBodyAcc-entropy()-Y"              "fBodyAcc-entropy()-Z"
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 [293] "fBodyAcc-maxInds-Z"               "fBodyAcc-meanFreq()-X"
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 [297] "fBodyAcc-skewness()-X"             "fBodyAcc-kurtosis()-X"
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 [319] "fBodyAcc-bandsEnergy()-17,24"       "fBodyAcc-bandsEnergy()-25,32"
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 [347] "fBodyAccJerk-mean()-Z"             "fBodyAccJerk-std()-X"
 [349] "fBodyAccJerk-std()-Y"             "fBodyAccJerk-std()-Z"
 [351] "fBodyAccJerk-mad()-X"              "fBodyAccJerk-mad()-Y"
 [353] "fBodyAccJerk-mad()-Z"              "fBodyAccJerk-max()-X"
 [355] "fBodyAccJerk-max()-Y"              "fBodyAccJerk-max()-Z"
 [357] "fBodyAccJerk-min()-X"              "fBodyAccJerk-min()-Y"
 [359] "fBodyAccJerk-min()-Z"              "fBodyAccJerk-sma()"
 [361] "fBodyAccJerk-energy()-X"           "fBodyAccJerk-energy()-Y"
 [363] "fBodyAccJerk-energy()-Z"           "fBodyAccJerk-iqr()-X"
 [365] "fBodyAccJerk-iqr()-Y"             "fBodyAccJerk-iqr()-Z"
 [367] "fBodyAccJerk-entropy()-X"          "fBodyAccJerk-entropy()-Y"
 [369] "fBodyAccJerk-entropy()-Z"          "fBodyAccJerk-maxInds-X"
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[371] "fBodyAccJerk-maxInds-Y" "fBodyAccJerk-maxInds-Z"
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[375] "fBodyAccJerk-meanFreq()-Z" "fBodyAccJerk-skewness()-X"
[377] "fBodyAccJerk-kurtosis()-X" "fBodyAccJerk-skewness()-Y"
[379] "fBodyAccJerk-kurtosis()-Y" "fBodyAccJerk-skewness()-Z"
[381] "fBodyAccJerk-kurtosis()-Z" "fBodyAccJerk-bandsEnergy()-1,8"
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[429] "fBodyGyro-std()-Z" "fBodyGyro-mad()-X"
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[435] "fBodyGyro-max()-Z" "fBodyGyro-min()-X"
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[445] "fBodyGyro-iqr()-Z" "fBodyGyro-entropy()-X"
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[507] "fBodyAccMag-min()" "fBodyAccMag-sma()"
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[511] "fBodyAccMag-entropy()" "fBodyAccMag-maxInds"
[513] "fBodyAccMag-meanFreq()" "fBodyAccMag-skewness()"
[515] "fBodyAccMag-kurtosis()" "fBodyBodyAccJerkMag-mean()"
[517] "fBodyBodyAccJerkMag-std()" "fBodyBodyAccJerkMag-mad()"
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[525] "fBodyBodyAccJerkMag-maxInds" "fBodyBodyAccJerkMag-meanFreq()"
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[529] "fBodyBodyGyroMag-mean()" "fBodyBodyGyroMag-std()"
[531] "fBodyBodyGyroMag-mad()" "fBodyBodyGyroMag-max()"
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[557] "angle(tBodyGyroMean,gravityMean)" "angle(tBodyGyroJerkMean,gravityMean)"
[559] "angle(X,gravityMean)" "angle(Y,gravityMean)"
[561] "angle(Z,gravityMean)"

Variable No. 5 (Column 5): activity

This variable contains the activity label:

ID	Activity
1	WALKING
2	WALKING_UPSTAIRS
3	WALKING_DOWNSTAIRS
4	SITTING
5	STANDING
6	LAYING