# code book - TIDY DATA SET

[1] "subject"   integer
                      1 - 30

[2] "activity" factor
                      activities type
- WALKING
- WALKING_UPSTAIRS
- WALKING_DOWNSTAIRS
- SITTING
- STANDING
- LAYING

[3] "Means_of_tBodyAcc-mean()-X"        Floating point
        Calculated means of the body acceleration signals mean of X axis

[4] "Means_of_tBodyAcc-mean()-Y"        Floating point
        Calculated means of the body acceleration signals mean of Y axis

[5] "Means_of_tBodyAcc-mean()-Z"        Floating point
        Calculated means of the body acceleration signals mean of Z axis

[6] "Means_of_tBodyAcc-std()-X"        Floating point
        Calculated means of the body acceleration signals standard deviation of X axis

[7] "Means_of_tBodyAcc-std()-Y"        Floating point
        Calculated means of the body acceleration signals standard deviation of Y axis

[8] "Means_of_tBodyAcc-std()-Z"        Floating point
        Calculated means of the body acceleration signals standard deviation of Z axis

[9] "Means_of_tGravityAcc-mean()-X"     Floating point
        Calculated means of the gravity acceleration signals mean of X axis

[10] "Means_of_tGravityAcc-mean()-Y"    Floating point
        Calculated means of the gravity acceleration signals mean of Y axis

[11] "Means_of_tGravityAcc-mean()-Z"    Floating point
        Calculated means of the gravity acceleration signals mean of Z axis

[12] "Means_of_tGravityAcc-std()-X"        Floating point
        Calculated means of the gravity acceleration signals standard deviation of X axis

[13] "Means_of_tGravityAcc-std()-Y"        Floating point
        Calculated means of the gravity acceleration signals standard deviation of Y axis

[14] "Means_of_tGravityAcc-std()-Z"        Floating point
        Calculated means of the gravity acceleration signals standard deviation of Z axis

[15] "Means_of_tBodyAccJerk-mean()-X"         Floating point
        Calculated means of the body acceleration signals mean of X axis

[16] "Means_of_tBodyAccJerk-mean()-Y"         Floating point
        Calculated means of the body acceleration signals mean of Y axis

[17] "Means_of_tBodyAccJerk-mean()-Z"         Floating point
        Calculated means of the body acceleration signals mean of Z axis

[18] "Means_of_tBodyAccJerk-std()-X"         Floating point
        Calculated means of the body acceleration signals standard deviation of X axis

[19] "Means_of_tBodyAccJerk-std()-Y"         Floating point
        Calculated means of the body acceleration signals standard deviation of Y axis

[20] "Means_of_tBodyAccJerk-std()-Z"         Floating point
        Calculated means of the body acceleration signals standard deviation of Z axis

[21] "Means_of_tBodyGyro-mean()-X"     Floating point
        Calculated means of the body gyroscope signals mean of X axis

[22] "Means_of_tBodyGyro-mean()-Y"     Floating point
        Calculated means of the body gyroscope signals mean of Y axis

[23] "Means_of_tBodyGyro-mean()-Z"     Floating point
            Calculated means of the body gyroscope signals mean of Z axis
[24] "Means_of_tBodyGyro-std()-X"      Floating point
            Calculated means of the body gyroscope signals standard deviation of X axis
[25] "Means_of_tBodyGyro-std()-Y"      Floating point
            Calculated means of the body gyroscope signals standard deviation of Y axis
[26] "Means_of_tBodyGyro-std()-Z"      Floating point
            Calculated means of the body gyroscope signals standard deviation of Z axis
[27] "Means_of_tBodyGyroJerk-mean()-X" Floating point
            Calculated means of the body gyroscope signals mean of X axis
[28] "Means_of_tBodyGyroJerk-mean()-Y" Floating point
            Calculated means of the body gyroscope signals mean of Y axis
[29] "Means_of_tBodyGyroJerk-mean()-Z" Floating point
            Calculated means of the body gyroscope signals mean of Z axis
[30] "Means_of_tBodyGyroJerk-std()-X"    Floating point
            Calculated means of the body gyroscope signals standard deviation of X axis
[31] "Means_of_tBodyGyroJerk-std()-Y"    Floating point
            Calculated means of the body gyroscope signals standard deviation of Y axis
[32] "Means_of_tBodyGyroJerk-std()-Z"    Floating point
            Calculated means of the body gyroscope signals standard deviation of Z axis
[33] "Means_of_tBodyAccMag-mean()"     Floating point
            Calculated means of magnitude of the body acceleration signals mean
[34] "Means_of_tBodyAccMag-std()"       Floating point
            Calculated means of magnitude of the body acceleration signals standard deviation
[35] "Means_of_tGravityAccMag-mean()"  Floating point
            Calculated means of magnitude of the gravity acceleration signals mean
[36] "Means_of_tGravityAccMag-std()"    Floating point
            Calculated means of magnitude of the gravity acceleration signals standard deviation
[37] "Means_of_tBodyAccJerkMag-mean()"      Floating point
            Calculated means of magnitude of the body acceleration signals mean
[38] "Means_of_tBodyAccJerkMag-std()"   Floating point
            Calculated means of magnitude of the body acceleration signals standard deviation
[39] "Means_of_tBodyGyroMag-mean()"    Floating point
            Calculated means of magnitude of the body gyroscope signals mean
[40] "Means_of_tBodyGyroMag-std()"      Floating point
            Calculated means of magnitude of the body gyroscope signals standard deviation
[41] "Means_of_tBodyGyroJerkMag-mean()"      Floating point
            Calculated means of magnitude of the body gyroscope signals mean
[42] "Means_of_tBodyGyroJerkMag-std()"
[43] "Means_of_fBodyAcc-mean()-X"       Floating point
            Calculated means of Fast Fourier Transform (FFT) was applied to signals of X axis
[44] "Means_of_fBodyAcc-mean()-Y"       Floating point
            Calculated means of Fast Fourier Transform (FFT) was applied to signals of Y axis
[45] "Means_of_fBodyAcc-mean()-Z"       Floating point
            Calculated means of Fast Fourier Transform (FFT) was applied to signals of Z axis
[46] "Means_of_fBodyAcc-std()-X"        Floating point
            Calculated means of magnitude of the body gyroscope signals standard deviation of
X axis
[47] "Means_of_fBodyAcc-std()-Y"        Floating point
            Calculated means of magnitude of the body gyroscope signals standard deviation of
Y axis
[48] "Means_of_fBodyAcc-std()-Z"        Floating point

Calculated means of magnitude of the body gyroscope signals standard deviation of Z axis

[49] "Means_of_fBodyAccJerk-mean()-X"   Floating point
          Calculated means of Fast Fourier Transform (FFT) was applied to signals of X axis
[50] "Means_of_fBodyAccJerk-mean()-Y"   Floating point
          Calculated means of Fast Fourier Transform (FFT) was applied to signals of Y axis
[51] "Means_of_fBodyAccJerk-mean()-Z"   Floating point
          Calculated means of Fast Fourier Transform (FFT) was applied to signals of Z axis
[52] "Means_of_fBodyAccJerk-std()-X"     Floating point
          Calculated means of Fast Fourier Transform (FFT) was applied to signals standard deviation of X axis
[53] "Means_of_fBodyAccJerk-std()-Y"     Floating point
          Calculated means of Fast Fourier Transform (FFT) was applied to signals standard deviation of Y axis
[54] "Means_of_fBodyAccJerk-std()-Z"     Floating point
          Calculated means of Fast Fourier Transform (FFT) was applied to signals standard deviation of Z axis
[55] "Means_of_fBodyGyro-mean()-X"       Floating point
          Calculated means of Fast Fourier Transform (FFT) was applied to signals mean of body gyroscope of X axis
[56] "Means_of_fBodyGyro-mean()-Y"       Floating point
          Calculated means of Fast Fourier Transform (FFT) was applied to signals mean of body gyroscope of Y axis
[57] "Means_of_fBodyGyro-mean()-Z"       Floating point
          Calculated means of Fast Fourier Transform (FFT) was applied to signals mean of body gyroscope of Z axis
[58] "Means_of_fBodyGyro-std()-X"         Floating point
          Calculated means of Fast Fourier Transform (FFT) was applied to signals standard deviation of body gyroscope of X axis
[59] "Means_of_fBodyGyro-std()-Y"         Floating point
          Calculated means of Fast Fourier Transform (FFT) was applied to signals standard deviation of body gyroscope of Y axis
[60] "Means_of_fBodyGyro-std()-Z"         Floating point
          Calculated means of Fast Fourier Transform (FFT) was applied to signals standard deviation of body gyroscope of Z axis
[61] "Means_of_fBodyAccMag-mean()" Floating point
          Calculated means of magnitude of the body acceleration signals mean
[62] "Means_of_fBodyAccMag-std()" Floating point
          Calculated means of magnitude of the body acceleration signals standard deviation
[63] "Means_of_fBodyBodyAccJerkMag-mean()" Floating point
          Calculated means of magnitude of the body acceleration signals mean
[64] "Means_of_fBodyBodyAccJerkMag-std()" Floating point
          Calculated means of magnitude of the body acceleration signals standard deviation
[65] "Means_of_fBodyBodyGyroMag-mean()" Floating point
          Calculated means of magnitude of the body gyroscope signals mean
[66] "Means_of_fBodyBodyGyroMag-std()" Floating point
          Calculated means of magnitude of the body gyroscope signals standard deviation
[67] "Means_of_fBodyBodyGyroJerkMag-mean()" Floating point
          Calculated means of magnitude of the body gyroscope signals mean
[68] "Means_of_fBodyBodyGyroJerkMag-std()" Floating point
          Calculated means of magnitude of the body gyroscope signals standard deviation
[69] "Means_of_angle(tBodyAccJerkMean),gravityMean)" Floating point

Calculated means of gravity of the body acceleration signals mean

[70] "Means_of_angle(tBodyGyroMean,gravityMean)" Floating point

Calculated means of gravity of the gyroscope acceleration signals mean

[71] "Means_of_angle(tBodyGyroJerkMean,gravityMean)" Floating point

Calculated means of gravity of the gyroscope acceleration signals  standard deviation

[72] "Means_of_angle(X,gravityMean)" Floating point

Calculated means of gravity of the angle acceleration signals mean of X axis

[73] "Means_of_angle(Y,gravityMean)" Floating point

Calculated means of gravity of the angle acceleration signals mean of Y axis

[74] "Means_of_angle(Z,gravityMean)" Floating point

Calculated means of gravity of the angle acceleration signals mean of Z axis