Fitness Tracker in MatLab

by Team **TrackStrikH**

Counting Steps

1. Preparing Data

To work with the data, we must first load it into the workspace and store the variables that are going to be used in this example. While we can double click on the data to load it, we will use the `load` command to make this process easier to replicate.

```matlab
% Load the data
dat = load('Data_1.mat');

% Extract data from the struct
lat = dat.Position.latitude;
lon = dat.Position.longitude;
positionDatetime = dat.Position.Timestamp;

Xacc = dat.Acceleration.X;
Yacc = dat.Acceleration.Y;
Zacc = dat.Acceleration.Z;
accelDatetime = dat.Acceleration.Timestamp;

% We use the following to obtain linear time data in seconds from a datetime array
positionTime = timeElapsed(positionDatetime);
accelTime = timeElapsed(accelDatetime);

% Display some parts of the data
disp('Position Data Sample:');
```

```
Position Data Sample:
```

```matlab
disp(table(lat(1:5), lon(1:5), positionDatetime(1:5)));
```

```
    Var1      Var2            Var3
   _____    _____    _____

   13.031    77.74    11-Jun-2024 09:57:04.000
   13.031    77.74    11-Jun-2024 09:57:05.000
   13.031    77.74    11-Jun-2024 09:57:06.000
   13.031    77.74    11-Jun-2024 09:57:07.000
   13.031    77.74    11-Jun-2024 09:57:08.000
```

```matlab
disp('Acceleration Data Sample:');
```

```
Acceleration Data Sample:
```

```matlab
disp(table(Xacc(1:5), Yacc(1:5), Zacc(1:5), accelDatetime(1:5)));
```

Var1	Var2	Var3	Var4
-1.2258	2.9425	9.1411	11-Jun-2024 09:57:01.515
-1.0199	2.9999	9.2129	11-Jun-2024 09:57:01.534
-1.3048	2.897	9.1243	11-Jun-2024 09:57:01.553
-1.0247	2.5857	9.6103	11-Jun-2024 09:57:01.572
-0.7039	2.4253	10.238	11-Jun-2024 09:57:01.591

2. Determining Approach Method

Let's say that you wanted to track the number of steps taken. One way that this can be done is by calculating the total distance traveled and then dividing it by your stride length. This works because stride is the distance taken for one step so if we look at the units they cancel out as seen below.

$$\frac{\text{totalDistance(ft)}}{\text{stride}\left(\frac{\text{ft}}{\text{step}}\right)} = \frac{\text{ft}}{\frac{\text{ft}}{\text{step}}} = \text{ft} * \frac{\text{step}}{\text{ft}} = \text{steps}$$

3. Coding The Model

Function Name: `haversine`

Purpose: Calculate the great-circle distance between two points on the Earth's surface, given their latitude and longitude coordinates, using the Haversine formula.

Inputs:

- `lat1` (double): Latitude of the first point in degrees.
- `lon1` (double): Longitude of the first point in degrees.
- `lat2` (double): Latitude of the second point in degrees.
- `lon2` (double): Longitude of the second point in degrees.

Output:

- `distance_miles` (double): The distance between the two points in miles.

```
function distance_miles = haversine(lat1, lon1, lat2, lon2)
    % Convert degrees to radians
    lat1 = deg2rad(lat1);
    lon1 = deg2rad(lon1);
    lat2 = deg2rad(lat2);
    lon2 = deg2rad(lon2);

    % Haversine formula
    dlat = lat2 - lat1;
```

```
    dlon = lon2 - lon1;
    a = sin(dlat/2)^2 + cos(lat1) * cos(lat2) * sin(dlon/2)^2;
    c = 2 * atan2(sqrt(a), sqrt(1-a));

    % Earth's radius in miles
    earthRadius_miles = 3958.8; % average radius of Earth in miles

    % Calculate distance in miles
    distance_miles = c * earthRadius_miles;
end
```

Formula

$$\frac{traveledDistance}{earth'sCircumference} = \frac{degreesTraveled}{earth'sDegrees}$$

From this we solve for 'traveledDistance'. We will use 360 for 'earth'sDegrees' because that is the total number of degrees in a circle. While the earth is not a perfect circle, this will still be a good estimation

Steps :

Define Constants:

- Set the Earth's circumference in miles.
- Set the average stride length in feet.

Initialize Total Distance:

- Initialize a variable to store the accumulated total distance traveled.

Loop Through Each Pair of Points:

- Iterate through the latitude and longitude data points.
- For each pair of consecutive points:
- Extract the current and next latitude and longitude.
- Calculate the distance between the two points using the Haversine formula.
- Accumulate this distance into the total distance variable.

Convert Total Distance to Feet:

- Convert the total distance from miles to feet.

Calculate the Total Number of Steps:

- Calculate the number of steps by dividing the total distance in feet by the average stride length.

Display the Results:

3

- Print the total distance traveled in miles.
- Print the total number of steps taken.

```matlab
%disp(['The total distance traveled is: ', num2str(totaldis),' miles'])
%disp(['You took ', num2str(steps) ' steps'])
earthCirc = 24901; % Earth's circumference in miles
stride = 2.5; % Average stride length in feet

% Initialize total distance
totaldis = 0;

% Loop through each pair of points
for i = 1:(length(lat)-1)
    lat1 = lat(i);      % The first latitude
    lat2 = lat(i+1);    % The second latitude
    lon1 = lon(i);      % The first longitude
    lon2 = lon(i+1);    % The second longitude
    degDis = haversine(lat1, lon1, lat2, lon2);
    totaldis = totaldis + degDis;
end

% Convert total distance to feet
totaldis_ft = totaldis * 5280;

% Calculate the total number of steps
steps = totaldis_ft / stride;

% Display the results
disp(['The Total Distance Traveled is: ', num2str(totaldis), ' Miles'])
```

```
The Total Distance Traveled is: 0.1953 Miles
```

```matlab
disp(['You Took ', num2str(steps), ' Steps'])
```

```
You Took 412.4687 Steps
```

Classifying Activity

In addition to counting steps, let's say that you want to know what kind of activity you were doing. Let's train a machine learning model that takes a person's acceleration data and shows if they were sitting, walking, or running.

1. Prepare the data

First, We need to collect sensor data for each of these activities. For simplicity, I collected this data in three different sessions: one where I was sitting the whole time ('sitFile'), one where I was walking ('walkFile'), and one where I was running ('runFile').

```matlab
% File paths for the activity log .mat files
runFile = "runningPositionAcceleration.mat";
```

4

```matlab
sitFile = "sittingPositionAcceleration.mat";
walkFile = "walkingPositionAcceleration.mat";

% Load running data
runData = load(runFile);
runLogs = runData.Acceleration;
runLogs.Activity = repmat("running", size(runLogs, 1), 1); % Add activity label

% Load sitting data
sitData = load(sitFile);
sitLogs = sitData.Acceleration;
sitLogs.Activity = repmat("sitting", size(sitLogs, 1), 1); % Add activity label

% Load walking data
walkData = load(walkFile);
walkLogs = walkData.Acceleration;
walkLogs.Activity = repmat("walking", size(walkLogs, 1), 1); % Add activity label

% Combine all logs into a single structure or table
allLogs = [runLogs; sitLogs; walkLogs];

% Save combined data to a single .mat file
save("combinedActivityLogs.mat", "allLogs");

% Alternatively, you can continue to work with allLogs for further analysis
```

Let's load the logs for these sessions and preview one of them to get a sense of how the data is structured.

```matlab
% Load data into MATLAB workspace (assuming allLogs contains the data)
load("combinedActivityLogs.mat", "allLogs");
disp(allLogs)
```

Timestamp	X	Y	Z	Activity
19-Jun-2024 14:06:56.948	-0.56052	2.6734	9.6855	"running"
19-Jun-2024 14:06:57.049	-0.51864	2.5663	9.7603	"running"
19-Jun-2024 14:06:57.150	-0.46421	2.7655	9.6455	"running"
19-Jun-2024 14:06:57.251	-0.46301	2.8857	9.3817	"running"
19-Jun-2024 14:06:57.352	-0.57727	2.8337	9.6227	"running"
19-Jun-2024 14:06:57.453	-0.37328	2.7709	9.655	"running"
19-Jun-2024 14:06:57.553	-0.35414	2.7506	9.5946	"running"
19-Jun-2024 14:06:57.655	-0.42951	2.7805	9.4642	"running"
19-Jun-2024 14:06:57.756	-0.45224	3.0443	9.28	"running"
19-Jun-2024 14:06:57.857	-0.30628	3.0772	9.5791	"running"
19-Jun-2024 14:06:57.958	-0.38285	2.9109	9.3601	"running"
19-Jun-2024 14:06:58.059	-0.27817	2.9587	9.5055	"running"
19-Jun-2024 14:06:58.160	-0.31346	2.9492	9.5091	"running"
19-Jun-2024 14:06:58.261	-0.28834	2.9294	9.6574	"running"
19-Jun-2024 14:06:58.362	-0.26142	2.8457	9.4385	"running"
19-Jun-2024 14:06:58.463	-0.022134	2.8768	9.6	"running"
19-Jun-2024 14:06:58.564	0.57129	3.3099	8.9982	"running"
19-Jun-2024 14:06:58.665	0.78903	3.8512	9.3117	"running"
19-Jun-2024 14:06:58.766	0.53958	3.5139	8.8229	"running"

```
19-Jun-2024 14:06:58.867      0.40798      3.2154      9.9446    "running"
19-Jun-2024 14:06:58.968      0.19143      3.4367      9.5378    "running"
19-Jun-2024 14:06:59.069      0.48036      3.5749      9.067     "running"
19-Jun-2024 14:06:59.170      0.64487      3.6209      9.1418    "running"
19-Jun-2024 14:06:59.271      0.59043      3.5348      9.1472    "running"
19-Jun-2024 14:06:59.372      0.70768      3.4175      9.2776    "running"
19-Jun-2024 14:06:59.473      1.4034       3.7424      8.9617    "running"
19-Jun-2024 14:06:59.574      1.0116       3.3069      9.6921    "running"
19-Jun-2024 14:06:59.675      0.28654      3.0664      9.5079    "running"
19-Jun-2024 14:06:59.776     -0.55514      2.4628      9.3577    "running"
19-Jun-2024 14:06:59.877     -0.50429      1.9675      9.6574    "running"
19-Jun-2024 14:06:59.978     -0.66461      1.9017      10.278    "running"
19-Jun-2024 14:07:00.079     -0.79023      2.1069      9.7567    "running"
19-Jun-2024 14:07:00.180     -0.48455      2.2283      9.8949    "running"
19-Jun-2024 14:07:00.281     -0.41097      2.2935      9.4959    "running"
19-Jun-2024 14:07:00.382     -0.47737      2.6291      10.033    "running"
19-Jun-2024 14:07:00.483      0.29611      2.3653      9.5904    "running"
19-Jun-2024 14:07:00.584      0.007777     2.5143      9.1579    "running"
19-Jun-2024 14:07:00.685     -0.51984      3.2345      9.1149    "running"
19-Jun-2024 14:07:00.786     -0.4989       3.3464      9.2698    "running"
19-Jun-2024 14:07:00.887     -0.42233      3.5186      9.259     "running"
19-Jun-2024 14:07:00.988     -0.25783      3.3799      9.3559    "running"
19-Jun-2024 14:07:01.089     -0.29671      3.283       9.3763    "running"
19-Jun-2024 14:07:01.190     -0.37567      3.1902      9.3021    "running"
19-Jun-2024 14:07:01.291     -0.016152     3.1125      9.4469    "running"
19-Jun-2024 14:07:01.392      0.23091      2.9934      9.5868    "running"
19-Jun-2024 14:07:01.493     -0.21476      3.4618      9.3248    "running"
19-Jun-2024 14:07:01.594     -0.58804      3.7645      9.1256    "running"
19-Jun-2024 14:07:01.695     -0.48933      3.682       9.1675    "running"
19-Jun-2024 14:07:01.796     -0.64905      3.4816      9.3027    "running"
19-Jun-2024 14:07:01.897     -0.32542      4.066       8.8427    "running"
19-Jun-2024 14:07:01.998     -0.68734      3.6365      8.7033    "running"
19-Jun-2024 14:07:02.099      1.4578       3.7831      8.6782    "running"
19-Jun-2024 14:07:02.200      1.5129       5.0758      7.8407    "running"
19-Jun-2024 14:07:02.301      0.065803     4.1874      7.6863    "running"
19-Jun-2024 14:07:02.402     -0.54377      4.258       7.386     "running"
19-Jun-2024 14:07:02.503     -1.7653       3.6724      6.749     "running"
19-Jun-2024 14:07:02.604     -5.3204       2.3844      8.5424    "running"
19-Jun-2024 14:07:02.705     -7.0313       2.2128      12.552    "running"
19-Jun-2024 14:07:02.806     -7.8168       4.2508      15.595    "running"
19-Jun-2024 14:07:02.907     -1.8957       4.6935      10.272    "running"
19-Jun-2024 14:07:03.008      0.44506      4.7192      4.4172    "running"
19-Jun-2024 14:07:03.109      1.2658       7.0211      7.2969    "running"
19-Jun-2024 14:07:03.210     -4.1145       1.1462      28.634    "running"
19-Jun-2024 14:07:03.311     -7.0696      -1.7133      8.4897    "running"
19-Jun-2024 14:07:03.412     -6.6006      -2.4772     -1.9603    "running"
19-Jun-2024 14:07:03.513     -2.994       -4.9304     -1.322     "running"
19-Jun-2024 14:07:03.614     -9.4152      -3.4152      10.321    "running"
19-Jun-2024 14:07:03.715     -12.076       0.85065     26.97     "running"
19-Jun-2024 14:07:03.816     -4.4237       3.2447      6.5868    "running"
19-Jun-2024 14:07:03.917      1.2329       7.1803      2.8786    "running"
19-Jun-2024 14:07:04.018     -0.58564     -4.1964      27.279    "running"
19-Jun-2024 14:07:04.119     -11.21       -11.012      18.689    "running"
19-Jun-2024 14:07:04.220     -3.8195      -3.3482     -2.2463    "running"
19-Jun-2024 14:07:04.321      0.74357     -4.9884     -4.9424    "running"
19-Jun-2024 14:07:04.422     -10.016      -5.385       2.2558    "running"
19-Jun-2024 14:07:04.523     -21.017      -2.4479      23.679    "running"
19-Jun-2024 14:07:04.624     -7.0175       2.6644      8.936     "running"
19-Jun-2024 14:07:04.725      1.27         5.5507      0.90269   "running"
19-Jun-2024 14:07:04.826     -10.461       5.7852      19.172    "running"
19-Jun-2024 14:07:04.927     -9.6526      -0.3996      20.945    "running"
19-Jun-2024 14:07:05.028     -2.3246      -2.918      -2.3342    "running"
19-Jun-2024 14:07:05.129     -1.2317      -6.0281     -5.2881    "running"
19-Jun-2024 14:07:05.230     -11.02       -2.0231      4.9232    "running"
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19-Jun-2024 14:07:05.331      -12.873       5.6716      23.913      "running"
19-Jun-2024 14:07:05.432      -5.0554       4.0164      6.1178      "running"
19-Jun-2024 14:07:05.533      -0.52343      5.1745      3.5833      "running"
19-Jun-2024 14:07:05.634      -1.3448       6.6676      10.181      "running"
19-Jun-2024 14:07:05.735      -16.449       2.1123      26.836      "running"
19-Jun-2024 14:07:05.836      -7.0433      -1.9675      3.1137      "running"
19-Jun-2024 14:07:05.937      -2.461       -4.6648      2.0405      "running"
19-Jun-2024 14:07:06.038      -2.7153      -5.0046     -4.9561      "running"
19-Jun-2024 14:07:06.139      -27.212      -4.255       9.9302      "running"
19-Jun-2024 14:07:06.240      -14.575       2.3222      4.995       "running"
19-Jun-2024 14:07:06.341      -2.5394       5.4138      0.33858     "running"
19-Jun-2024 14:07:06.442      -6.0299       6.3392      4.6134      "running"
19-Jun-2024 14:07:06.543      -21.516      -1.1007      25.676      "running"
19-Jun-2024 14:07:06.644      -4.5069      -7.4961      5.1117      "running"
19-Jun-2024 14:07:06.745      -2.1308      -2.8175     -0.48096     "running"
19-Jun-2024 14:07:06.846      -3.7795      -2.6333     -3.7059      "running"
19-Jun-2024 14:07:06.947      -17.691       1.6672      11.07       "running"
19-Jun-2024 14:07:07.048      -11.745       4.4877      15.985      "running"
19-Jun-2024 14:07:07.149      -1.0552       3.0389      4.7498      "running"
19-Jun-2024 14:07:07.250       1.538        2.991       2.8756      "running"
19-Jun-2024 14:07:07.351      -0.017946     3.8794      13.045      "running"
19-Jun-2024 14:07:07.452      -1.617        6.0622      18.411      "running"
19-Jun-2024 14:07:07.553      -3.1155       2.4215      5.4042      "running"
19-Jun-2024 14:07:07.654      -2.6393       1.5727     -0.27159     "running"
19-Jun-2024 14:07:07.755      -4.398        4.2939      7.8455      "running"
19-Jun-2024 14:07:07.856      -6.0772       6.999       18.459      "running"
19-Jun-2024 14:07:07.957      -1.6337       4.9352      7.2185      "running"
19-Jun-2024 14:07:08.058       0.58505      2.2786      1.4327      "running"
19-Jun-2024 14:07:08.159       1.9819       5.4628      5.9468      "running"
19-Jun-2024 14:07:08.260      -5.6166       11.766      18.741      "running"
19-Jun-2024 14:07:08.361      -2.4724       2.61        6.3099      "running"
19-Jun-2024 14:07:08.462      -1.3196      -0.46421     4.0164      "running"
19-Jun-2024 14:07:08.563      -3.4983       3.3948      5.8947      "running"
19-Jun-2024 14:07:08.664      -6.2919       5.9402      17.535      "running"
19-Jun-2024 14:07:08.765      -3.3272       4.7097      7.791       "running"
19-Jun-2024 14:07:08.866       0.89312      2.2857      1.4704      "running"
19-Jun-2024 14:07:08.967      -0.59462      7.4435      7.468       "running"
19-Jun-2024 14:07:09.068      -1.41         6.9326      21.645      "running"
19-Jun-2024 14:07:09.169      -4.5978       1.1629      5.616       "running"
19-Jun-2024 14:07:09.270      -3.1783      -0.24586     2.4514      "running"
19-Jun-2024 14:07:09.371      -3.9464       1.7025      5.4903      "running"
19-Jun-2024 14:07:09.471      -5.1924       5.7338      18.707      "running"
19-Jun-2024 14:07:09.573      -1.2215       5.0895      12.579      "running"
19-Jun-2024 14:07:09.674       1.0074       2.7757      5.0231      "running"
19-Jun-2024 14:07:09.775       0.5659       4.3059      1.7874      "running"
19-Jun-2024 14:07:09.876       1.6152       8.8804      11.741      "running"
19-Jun-2024 14:07:09.977      -1.2508       3.0473      20.125      "running"
19-Jun-2024 14:07:10.078      -2.4814      -0.012562    3.9171      "running"
19-Jun-2024 14:07:10.179      -2.9707       0.20578     1.0504      "running"
19-Jun-2024 14:07:10.280      -4.014        1.3986      9.813       "running"
19-Jun-2024 14:07:10.381      -7.9208       2.5113      21.675      "running"
19-Jun-2024 14:07:10.482      -1.6786       3.0096      9.9404      "running"
19-Jun-2024 14:07:10.583       0.70409      3.7633      1.9765      "running"
19-Jun-2024 14:07:10.684       1.4853       5.6004      6.539       "running"
19-Jun-2024 14:07:10.785      -3.6377       4.6481      25.134      "running"
19-Jun-2024 14:07:10.886      -1.721       -0.6664      3.3212      "running"
19-Jun-2024 14:07:10.987      -3.5545      -3.8578      0.33499     "running"
19-Jun-2024 14:07:11.088      -8.5208      -3.143       1.4919      "running"
19-Jun-2024 14:07:11.189      -15.614       2.1523      23.959      "running"
19-Jun-2024 14:07:11.290      -4.8808       3.9015      12.894      "running"
19-Jun-2024 14:07:11.391      -1.7091       4.0451      1.4375      "running"
19-Jun-2024 14:07:11.492       0.61256      5.8834      3.3224      "running"
19-Jun-2024 14:07:11.593      -4.0899       6.0508      29.508      "running"
19-Jun-2024 14:07:11.694      -2.665        2.4293      2.9318      "running"
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```
19-Jun-2024 14:07:11.795     -4.252     -1.8694      1.8102    "running"
19-Jun-2024 14:07:11.896    -4.3496    -0.47019      2.7039    "running"
19-Jun-2024 14:07:11.997    -4.3902      6.4205      16.092    "running"
19-Jun-2024 14:07:12.098     -1.675      7.1001      16.204    "running"
19-Jun-2024 14:07:12.199    0.85184      4.0307       1.212    "running"
19-Jun-2024 14:07:12.300    0.67896      4.6804     0.76092    "running"
19-Jun-2024 14:07:12.401     1.8251      7.0098       13.58    "running"
19-Jun-2024 14:07:12.502   -0.64008      4.1109      19.585    "running"
19-Jun-2024 14:07:12.603    -2.2522      2.0901      4.2269    "running"
19-Jun-2024 14:07:12.704    -1.8939      0.5671      2.9037    "running"
19-Jun-2024 14:07:12.805     -2.997      2.9701      9.1741    "running"
19-Jun-2024 14:07:12.906     -4.672      4.0893      19.599    "running"
19-Jun-2024 14:07:13.007   -0.69392      3.9607      8.8331    "running"
19-Jun-2024 14:07:13.108    0.65384       3.789      1.8586    "running"
19-Jun-2024 14:07:13.209     2.5178      3.7274      7.9591    "running"
19-Jun-2024 14:07:13.310    -1.3352      4.3496          21    "running"
19-Jun-2024 14:07:13.411    -2.6333      2.3276      10.842    "running"
19-Jun-2024 14:07:13.512     -3.472      1.4333      2.5914    "running"
19-Jun-2024 14:07:13.613    -1.3167      1.5087      1.6534    "running"
19-Jun-2024 14:07:13.714    -4.7695      5.7763      14.334    "running"
19-Jun-2024 14:07:13.815    -4.1527      5.4933      13.825    "running"
19-Jun-2024 14:07:13.916   -0.68854      3.4917      2.9647    "running"
19-Jun-2024 14:07:14.017      2.814      2.8175      4.9394    "running"
19-Jun-2024 14:07:14.118     0.6323      4.2383      18.125    "running"
19-Jun-2024 14:07:14.219    -3.1717       5.744      12.725    "running"
19-Jun-2024 14:07:14.320    -2.8295        2.93      3.3757    "running"
19-Jun-2024 14:07:14.421     -2.141      1.1928      3.8662    "running"
19-Jun-2024 14:07:14.522    -4.4423      4.2287      9.8441    "running"
19-Jun-2024 14:07:14.623    -5.0746      5.2056      15.805    "running"
19-Jun-2024 14:07:14.724    -1.7192      4.2006      5.6644    "running"
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19-Jun-2024 14:07:14.926    0.79382      5.7817      14.865    "running"
19-Jun-2024 14:07:15.027    -4.2449      5.4185       18.71    "running"
19-Jun-2024 14:07:15.128   -0.64367      2.3821     0.73819    "running"
19-Jun-2024 14:07:15.229    -3.6179      2.0991      0.4983    "running"
19-Jun-2024 14:07:15.330    -6.0162      5.5131      5.5884    "running"
19-Jun-2024 14:07:15.431     -6.591      5.8038      17.511    "running"
19-Jun-2024 14:07:15.532    -1.8012      4.1809      10.017    "running"
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19-Jun-2024 14:07:15.734     2.2367      3.3757      4.8006    "running"
19-Jun-2024 14:07:15.835    0.18963       5.598      15.958    "running"
19-Jun-2024 14:07:15.936    -1.8652      3.4678      12.846    "running"
19-Jun-2024 14:07:16.037    -2.3785     0.99182      4.3167    "running"
19-Jun-2024 14:07:16.138   -0.70169     -2.2152       1.614    "running"
19-Jun-2024 14:07:16.239    -11.069      4.4818      16.288    "running"
19-Jun-2024 14:07:16.340   -0.99302      8.7924      9.8626    "running"
19-Jun-2024 14:07:16.441    0.81715     0.92602      6.5581    "running"
19-Jun-2024 14:07:16.542   -0.31226      7.4788      6.1609    "running"
19-Jun-2024 14:07:16.643    -2.0871      3.8979      26.764    "running"
19-Jun-2024 14:07:16.744    -7.0158       2.793      7.7617    "running"
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19-Jun-2024 14:07:16.946    -4.0439     -1.7163     0.19083    "running"
19-Jun-2024 14:07:17.047     -7.273      1.4339      7.6319    "running"
19-Jun-2024 14:07:17.148    -9.4116      3.3344        18.7    "running"
19-Jun-2024 14:07:17.249    -3.5414     0.27278      7.5727    "running"
19-Jun-2024 14:07:17.350    0.61914      4.0313      4.3029    "running"
19-Jun-2024 14:07:17.451    0.20937      5.3468      14.341    "running"
19-Jun-2024 14:07:17.552    -4.6056    -0.42532      28.455    "running"
19-Jun-2024 14:07:17.653      -4.27     -4.2855      14.813    "running"
19-Jun-2024 14:07:17.754    -3.9452     -0.2656    -0.11605    "running"
19-Jun-2024 14:07:17.855    -3.5737     -1.6421    -0.17408    "running"
19-Jun-2024 14:07:17.956    -5.0106    -0.16152     -1.1216    "running"
19-Jun-2024 14:07:18.057    -10.986      5.6225      20.287    "running"
19-Jun-2024 14:07:18.158    -4.6175      5.8313      13.642    "running"
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19-Jun-2024 14:07:18.259       1.2191       2.7625       5.6776       "running"
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19-Jun-2024 14:07:18.461      -7.0762       8.1673      25.801        "running"
19-Jun-2024 14:07:18.562      -6.6538       1.078       12.677        "running"
19-Jun-2024 14:07:18.663      -2.5783      -0.80937      0.036491     "running"
19-Jun-2024 14:07:18.764      -5.1721      -1.4776      -2.2223       "running"
19-Jun-2024 14:07:18.865     -12.128        0.89551      7.2933       "running"
19-Jun-2024 14:07:18.966     -11.612        2.2367      20.847        "running"
19-Jun-2024 14:07:19.067      -3.0682       3.3912       7.8048       "running"
19-Jun-2024 14:07:19.168      -0.22792      7.6253      -0.49232      "running"
19-Jun-2024 14:07:19.269      -7.4943       5.7308      22.768        "running"
19-Jun-2024 14:07:19.370      -9.7005      -3.8752      20.484        "running"
19-Jun-2024 14:07:19.471      -0.734       -4.5517      -1.6331       "running"
19-Jun-2024 14:07:19.572      -5.4622      -5.6375      -4.748        "running"
19-Jun-2024 14:07:19.673     -14.95        -5.6423       2.7362       "running"
19-Jun-2024 14:07:19.774     -18.055       -0.33081     23.592        "running"
19-Jun-2024 14:07:19.875      -2.3085       5.2762       8.9575       "running"
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19-Jun-2024 14:07:20.077      -8.9593       6.4415      17.264        "running"
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19-Jun-2024 14:07:20.380      -5.2696      -5.2917      -3.7107       "running"
19-Jun-2024 14:07:20.481      -9.1424      -3.798        0.7328       "running"
19-Jun-2024 14:07:20.582      -7.526       -1.7294      27.037        "running"
19-Jun-2024 14:07:20.683      -8.5035       6.0508      14.679        "running"
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19-Jun-2024 14:07:20.885       3.3326       3.0933      18.025        "running"
19-Jun-2024 14:07:20.986      -3.7902      -7.4925      28.747        "running"
19-Jun-2024 14:07:21.087      -4.1031      -7.4387      -2.8008       "running"
19-Jun-2024 14:07:21.188      -5.519       -7.0834      -5.0417       "running"
19-Jun-2024 14:07:21.289     -11.349       -4.2508      -0.023928     "running"
19-Jun-2024 14:07:21.390     -17.402       -2.2863      28.333        "running"
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19-Jun-2024 14:07:21.693      -6.9368       0.58564     29.384        "running"
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19-Jun-2024 14:07:22.097      -4.8          2.2558      14.651        "running"
19-Jun-2024 14:07:22.198      -0.1681       1.1557      14.646        "running"
19-Jun-2024 14:07:22.299       2.6064      -1.9831       4.9866       "running"
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19-Jun-2024 14:07:22.602      -3.2704      -5.4526      16.304        "running"
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19-Jun-2024 14:07:23.006      -5.4461       5.467       10.234        "running"
19-Jun-2024 14:07:23.107      -0.23031      6.3996       3.6287       "running"
19-Jun-2024 14:07:23.208      -0.20638      5.8552      15.148        "running"
19-Jun-2024 14:07:23.308      -8.1775       1.2173      19.068        "running"
19-Jun-2024 14:07:23.410      -1.3011      -1.8646       3.8991       "running"
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19-Jun-2024 14:07:23.915      -0.72802      4.3155       3.4193       "running"
19-Jun-2024 14:07:24.016     -10.189        4.7677      11.609        "running"
19-Jun-2024 14:07:24.117      -9.5492       1.41        17.444        "running"
19-Jun-2024 14:07:24.218      -3.0855      -2.9569       2.8008       "running"
19-Jun-2024 14:07:24.319      -0.26022     -4.2461       0.21177      "running"
19-Jun-2024 14:07:24.420      -4.949       -3.2752       0.15135      "running"
19-Jun-2024 14:07:24.521     -17.621        1.3041      20.175        "running"
19-Jun-2024 14:07:24.622     -10.409        3.5348      11.131        "running"
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19-Jun-2024 14:07:24.723	-3.6849	5.9468	1.4291	"running"
19-Jun-2024 14:07:24.824	-4.4034	8.9886	5.1948	"running"
19-Jun-2024 14:07:24.925	-13.673	1.7444	26.894	"running"
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19-Jun-2024 14:07:25.531	-5.1188	3.7238	4.5338	"running"
19-Jun-2024 14:07:25.632	2.3791	4.5003	8.8325	"running"
19-Jun-2024 14:07:25.733	0.035294	1.9555	20.118	"running"
19-Jun-2024 14:07:25.834	-8.8594	2.3593	10.244	"running"
19-Jun-2024 14:07:25.935	-8.2851	2.4168	4.121	"running"
19-Jun-2024 14:07:26.036	-4.8514	1.3017	0.1998	"running"
19-Jun-2024 14:07:26.137	-4.9065	2.1362	15.717	"running"
19-Jun-2024 14:07:26.238	-6.1298	7.7175	11.06	"running"
19-Jun-2024 14:07:26.339	-0.50907	2.4616	4.6851	"running"
19-Jun-2024 14:07:26.440	1.453	0.089731	5.2744	"running"
19-Jun-2024 14:07:26.541	-0.89312	1.3322	10.49	"running"
19-Jun-2024 14:07:26.642	-6.1436	-1.6026	17.573	"running"
19-Jun-2024 14:07:26.743	-6.2824	1.9298	5.327	"running"
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19-Jun-2024 14:07:27.046	-2.4867	-2.7619	15.801	"running"
19-Jun-2024 14:07:27.147	4.8915	0.70229	8.6758	"running"
19-Jun-2024 14:07:27.248	3.2877	-0.51266	5.9635	"running"
19-Jun-2024 14:07:27.349	-0.93799	-0.23629	6.1328	"running"
19-Jun-2024 14:07:27.450	-2.4335	-2.0453	17.274	"running"
19-Jun-2024 14:07:27.551	-0.35115	3.3601	7.6977	"running"
19-Jun-2024 14:07:27.652	-2.6572	3.076	4.4022	"running"
19-Jun-2024 14:07:27.753	-0.48156	3.189	18.056	"running"
19-Jun-2024 14:07:27.854	6.4505	3.789	14.523	"running"
19-Jun-2024 14:07:27.955	5.2857	0.87458	5.5651	"running"
19-Jun-2024 14:07:28.056	2.464	-0.48754	3.7549	"running"
19-Jun-2024 14:07:28.157	2.8002	0.78365	6.0903	"running"
19-Jun-2024 14:07:28.258	3.2656	0.61855	17.131	"running"
19-Jun-2024 14:07:28.359	-0.44806	1.5517	11.798	"running"
19-Jun-2024 14:07:28.460	-2.0674	3.7053	2.1428	"running"
19-Jun-2024 14:07:28.561	-0.64546	5.1392	14.471	"running"
19-Jun-2024 14:07:28.662	3.4738	-0.28355	24.829	"running"
19-Jun-2024 14:07:28.763	4.0181	-1.5446	6.8674	"running"
19-Jun-2024 14:07:28.864	5.6465	-0.62333	0.32064	"running"
19-Jun-2024 14:07:28.965	1.9669	-0.47378	1.1521	"running"
19-Jun-2024 14:07:29.066	4.5494	0.44387	21.15	"running"
19-Jun-2024 14:07:29.167	0.67597	1.0092	13.104	"running"
19-Jun-2024 14:07:29.268	-2.147	2.5555	-0.38584	"running"
19-Jun-2024 14:07:29.369	1.3687	3.7825	15.441	"running"
19-Jun-2024 14:07:29.470	7.7815	-1.3561	24.975	"running"
19-Jun-2024 14:07:29.571	4.6056	-0.2345	0.72144	"running"
19-Jun-2024 14:07:29.672	4.3693	-3.99	1.4219	"running"
19-Jun-2024 14:07:29.773	7.325	1.3095	6.4528	"running"
19-Jun-2024 14:07:29.874	6.1639	5.5232	16.49	"running"
19-Jun-2024 14:07:29.975	-1.1611	3.9978	3.4445	"running"
19-Jun-2024 14:07:30.076	-0.52343	3.6335	3.5198	"running"
19-Jun-2024 14:07:30.177	-4.334	8.5681	15.636	"running"
19-Jun-2024 14:07:30.278	0.29372	3.1663	19.278	"running"
19-Jun-2024 14:07:30.379	6.5635	-6.7484	1.9807	"running"
19-Jun-2024 14:07:30.480	6.8806	-5.7559	-0.10768	"running"
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19-Jun-2024 14:07:30.682	15.983	2.9264	18.893	"running"
19-Jun-2024 14:07:30.783	2.4664	4.3172	7.267	"running"
19-Jun-2024 14:07:30.884	-0.99182	3.868	5.3791	"running"
19-Jun-2024 14:07:30.985	3.1872	5.7918	12.519	"running"
19-Jun-2024 14:07:31.086	6.6532	3.6054	16.03	"running"

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19-Jun-2024 14:07:31.187      6.0772     -0.37089      2.4957    "running"
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19-Jun-2024 14:07:33.308     -3.3763      3.1382       0.99781   "running"
19-Jun-2024 14:07:33.409     -0.23689    12.179        18.366    "running"
19-Jun-2024 14:07:33.510      6.9272      3.7442       18.431    "running"
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19-Jun-2024 14:07:33.712      2.0459     -2.1984      -2.3533    "running"
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19-Jun-2024 14:07:34.015     -0.27757     2.5585      -2.796     "running"
19-Jun-2024 14:07:34.116      0.44088     2.869       -2.0943    "running"
19-Jun-2024 14:07:34.217      0.23151    11.276        22.314    "running"
19-Jun-2024 14:07:34.318      8.4437      1.2933       20.459    "running"
19-Jun-2024 14:07:34.419      3.4014     -1.4351      -0.81775   "running"
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19-Jun-2024 14:07:34.722      5.3659      8.278        25.532    "running"
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19-Jun-2024 14:07:34.924     -1.806       0.1322      -3.5282    "running"
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19-Jun-2024 14:07:35.328      0.84048    -2.854       -1.3143    "running"
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19-Jun-2024 14:07:35.833      0.82134     7.7964       19.346    "running"
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19-Jun-2024 14:07:36.035      3.0305     -2.0913       7.2718    "running"
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19-Jun-2024 14:07:36.944      1.8455     -2.2038      -7.8586    "running"
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19-Jun-2024 14:07:37.145      7.7934      9.6048       24.377    "running"
19-Jun-2024 14:07:37.247      0.28654     2.7051       5.5298    "running"
19-Jun-2024 14:07:37.348     -2.9198      3.5581      -2.388     "running"
19-Jun-2024 14:07:37.449     -6.4451      8.0207       18.117    "running"
19-Jun-2024 14:07:37.550      4.9011     -2.3456       19.831    "running"
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19-Jun-2024 14:07:37.651	9.6951	-0.06999	3.7759	"running"
19-Jun-2024 14:07:37.752	4.066	-0.1322	0.33081	"running"
19-Jun-2024 14:07:37.853	8.68	-0.2991	7.0481	"running"
19-Jun-2024 14:07:37.954	8.5394	1.3382	26.38	"running"
19-Jun-2024 14:07:38.055	1.4985	3.6102	2.2433	"running"
19-Jun-2024 14:07:38.156	-1.5105	3.0538	-3.3314	"running"
19-Jun-2024 14:07:38.257	-1.8108	5.8134	7.614	"running"
19-Jun-2024 14:07:38.358	3.594	1.4991	29.444	"running"
19-Jun-2024 14:07:38.459	6.3284	1.6582	3.5815	"running"
19-Jun-2024 14:07:38.560	2.4706	-0.63948	-2.0883	"running"
19-Jun-2024 14:07:38.661	5.0644	-1.0816	4.3555	"running"
19-Jun-2024 14:07:38.762	7.0582	3.6742	20.298	"running"
19-Jun-2024 14:07:38.863	2.1787	2.9809	13.202	"running"
19-Jun-2024 14:07:38.964	-1.0983	3.8602	-1.5434	"running"
19-Jun-2024 14:07:39.065	-0.72263	5.1781	11.904	"running"
19-Jun-2024 14:07:39.166	13.909	2.1362	23.934	"running"
19-Jun-2024 14:07:39.267	2.9252	0.034696	2.6459	"running"
19-Jun-2024 14:07:39.368	2.2504	-0.64247	-3.0915	"running"
19-Jun-2024 14:07:39.469	8.0524	3.4181	9.1346	"running"
19-Jun-2024 14:07:39.570	8.0489	2.0961	21.851	"running"
19-Jun-2024 14:07:39.671	3.8237	2.8917	-2.3498	"running"
19-Jun-2024 14:07:39.772	-4.0857	1.5374	1.1348	"running"
19-Jun-2024 14:07:39.873	-2.6931	5.4317	15.208	"running"
19-Jun-2024 14:07:39.974	8.2612	-2.7392	25.236	"running"
19-Jun-2024 14:07:40.075	4.7934	-1.2335	5.2995	"running"
19-Jun-2024 14:07:40.176	1.4201	0.41216	0.44267	"running"
19-Jun-2024 14:07:40.277	6.5575	3.9685	16.487	"running"
19-Jun-2024 14:07:40.378	4.5655	2.7488	9.1202	"running"
19-Jun-2024 14:07:40.479	2.3378	1.5972	2.3037	"running"
19-Jun-2024 14:07:40.580	-1.6271	7.1551	0.66281	"running"
19-Jun-2024 14:07:40.681	-0.63769	9.1537	17.149	"running"
19-Jun-2024 14:07:40.782	9.3655	0.24048	18.914	"running"
19-Jun-2024 14:07:40.883	6.545	-0.089731	3.9272	"running"
19-Jun-2024 14:07:40.984	5.3288	-1.8479	2.6189	"running"
19-Jun-2024 14:07:41.085	11.675	3.2303	12.929	"running"
19-Jun-2024 14:07:41.186	3.3996	3.5174	9.4445	"running"
19-Jun-2024 14:07:41.287	-0.55573	3.0951	3.0383	"running"
19-Jun-2024 14:07:41.388	-3.3697	5.9719	2.6351	"running"
19-Jun-2024 14:07:41.489	8.1015	4.0152	26.336	"running"
19-Jun-2024 14:07:41.590	11.374	-1.0893	12.815	"running"
19-Jun-2024 14:07:41.691	4.8736	0.22253	1.5643	"running"
19-Jun-2024 14:07:41.792	3.0395	-1.7994	-0.82493	"running"
19-Jun-2024 14:07:41.893	11.092	1.0211	17.289	"running"
19-Jun-2024 14:07:41.994	7.678	6.2901	11.783	"running"
19-Jun-2024 14:07:42.095	-3.1442	2.0674	0.1992	"running"
19-Jun-2024 14:07:42.196	0.13699	8.9635	5.6166	"running"
19-Jun-2024 14:07:42.297	-0.065803	9.5797	27.156	"running"
19-Jun-2024 14:07:42.398	3.9829	-2.1212	13.092	"running"
19-Jun-2024 14:07:42.499	2.7248	-4.3926	-0.65085	"running"
19-Jun-2024 14:07:42.600	5.8397	-4.6241	-1.0038	"running"
19-Jun-2024 14:07:42.701	11.969	6.7448	20.009	"running"
19-Jun-2024 14:07:42.802	2.6961	6.8644	10.362	"running"
19-Jun-2024 14:07:42.903	-0.62513	1.8879	3.009	"running"
19-Jun-2024 14:07:43.004	-3.2518	8.7374	2.403	"running"
19-Jun-2024 14:07:43.105	6.8309	9.8961	24.568	"running"
19-Jun-2024 14:07:43.206	7.9519	0.46421	16.095	"running"
19-Jun-2024 14:07:43.307	2.3557	-3.3398	1.4231	"running"
19-Jun-2024 14:07:43.408	6.6305	-2.4042	-3.3254	"running"
19-Jun-2024 14:07:43.509	10.738	6.7531	17.736	"running"
19-Jun-2024 14:07:43.610	3.88	6.9051	13.018	"running"
19-Jun-2024 14:07:43.711	-1.6032	2.3145	-1.9382	"running"
19-Jun-2024 14:07:43.812	0.1992	8.5047	6.2423	"running"
19-Jun-2024 14:07:43.913	5.8164	5.5842	25.909	"running"
19-Jun-2024 14:07:44.014	-0.14297	-0.8662	11.16	"running"

19-Jun-2024 14:07:44.115	3.6413	-1.2616	1.1306	"running"
19-Jun-2024 14:07:44.216	3.2602	-0.83928	-2.3916	"running"
19-Jun-2024 14:07:44.317	10.049	3.4074	20.002	"running"
19-Jun-2024 14:07:44.418	5.9916	4.2467	12.536	"running"
19-Jun-2024 14:07:44.519	2.2068	1.9872	0.30748	"running"
19-Jun-2024 14:07:44.620	-0.92243	3.4935	2.0835	"running"
19-Jun-2024 14:07:44.721	-1.6941	6.0138	18.686	"running"
19-Jun-2024 14:07:44.822	3.2399	-1.3747	24.174	"running"
19-Jun-2024 14:07:44.923	1.0415	-1.1527	5.3145	"running"
19-Jun-2024 14:07:45.024	3.076	-0.94277	-2.9169	"running"
19-Jun-2024 14:07:45.125	5.802	-0.51745	5.6058	"running"
19-Jun-2024 14:07:45.226	8.3258	4.9502	24.428	"running"
19-Jun-2024 14:07:45.327	3.6784	6.3452	5.7224	"running"
19-Jun-2024 14:07:45.428	-2.7224	1.3585	0.67836	"running"
19-Jun-2024 14:07:45.529	-1.7611	4.9137	6.3206	"running"
19-Jun-2024 14:07:45.630	2.5543	6.2297	26.424	"running"
19-Jun-2024 14:07:45.731	4.1713	2.0895	7.852	"running"
19-Jun-2024 14:07:45.832	2.2205	-1.267	-1.203	"running"
19-Jun-2024 14:07:45.933	6.2261	-2.5603	4.8652	"running"
19-Jun-2024 14:07:46.034	8.4353	3.7561	14.518	"running"
19-Jun-2024 14:07:46.135	2.6333	6.4505	16.65	"running"
19-Jun-2024 14:07:46.236	0.85005	4.1013	3.7155	"running"
19-Jun-2024 14:07:46.337	-1.7958	3.3613	0.9996	"running"
19-Jun-2024 14:07:46.438	-0.62871	6.2052	16.29	"running"
19-Jun-2024 14:07:46.539	2.5537	3.3404	16.574	"running"
19-Jun-2024 14:07:46.640	4.7246	0.19023	4.7384	"running"
19-Jun-2024 14:07:46.741	5.0901	-0.88953	0.93739	"running"
19-Jun-2024 14:07:46.842	7.6594	1.4764	14.08	"running"
19-Jun-2024 14:07:46.943	1.6181	3.21	16.014	"running"
19-Jun-2024 14:07:47.044	-0.95593	4.3167	-0.73759	"running"
19-Jun-2024 14:07:47.145	-1.3274	4.8927	6.7513	"running"
19-Jun-2024 14:07:47.246	5.5872	2.476	32.663	"running"
19-Jun-2024 14:07:47.347	3.1406	-2.0991	11.068	"running"
19-Jun-2024 14:07:47.448	3.1244	-1.8772	-1.5553	"running"
19-Jun-2024 14:07:47.549	1.9262	-0.28893	-0.050249	"running"
19-Jun-2024 14:07:47.650	5.3683	3.9147	20.212	"running"
19-Jun-2024 14:07:47.751	5.6554	3.7484	10.379	"running"
19-Jun-2024 14:07:47.852	2.3653	1.4512	-1.6026	"running"
19-Jun-2024 14:07:47.953	1.0528	5.3049	6.3619	"running"
19-Jun-2024 14:07:48.054	1.2036	5.2947	26.094	"running"
19-Jun-2024 14:07:48.155	8.1769	-0.41157	15.143	"running"
19-Jun-2024 14:07:48.256	2.3342	-2.994	0.59581	"running"
19-Jun-2024 14:07:48.357	5.5884	-2.2911	-2.9773	"running"
19-Jun-2024 14:07:48.458	6.6568	3.1699	19.292	"running"
19-Jun-2024 14:07:48.559	-1.002	2.6279	16.279	"running"
19-Jun-2024 14:07:48.660	0.87876	0.11007	-0.4343	"running"
19-Jun-2024 14:07:48.761	-3.6891	4.7749	3.6706	"running"
19-Jun-2024 14:07:48.862	-0.51685	9.1292	28.256	"running"
19-Jun-2024 14:07:48.963	2.0955	0.23749	16.166	"running"
19-Jun-2024 14:07:49.064	4.0917	-3.3709	0.082552	"running"
19-Jun-2024 14:07:49.165	5.3486	-4.9334	-2.5424	"running"
19-Jun-2024 14:07:49.266	5.7607	2.8684	13.113	"running"
19-Jun-2024 14:07:49.367	-0.16511	7.4166	23.472	"running"
19-Jun-2024 14:07:49.468	1.6648	4.1605	4.2407	"running"
19-Jun-2024 14:07:49.569	-2.7817	5.8415	1.6439	"running"
19-Jun-2024 14:07:49.670	-2.4993	8.065	24.635	"running"
19-Jun-2024 14:07:49.771	3.6437	1.4417	14.902	"running"
19-Jun-2024 14:07:49.872	2.519	-2.0255	-1.3125	"running"
19-Jun-2024 14:07:49.973	3.664	0.36012	2.3049	"running"
19-Jun-2024 14:07:50.074	5.1601	7.9053	8.3946	"running"
19-Jun-2024 14:07:50.175	4.7713	7.1067	17.019	"running"
19-Jun-2024 14:07:50.276	-0.010768	3.7328	2.9982	"running"
19-Jun-2024 14:07:50.377	-2.4748	4.4088	4.5918	"running"
19-Jun-2024 14:07:50.478	-2.7577	5.732	17.439	"running"

19-Jun-2024 14:07:50.579	0.36311	5.1852	12.674	"running"
19-Jun-2024 14:07:50.680	3.9015	1.6235	3.9643	"running"
19-Jun-2024 14:07:50.781	2.6566	0.63649	3.8028	"running"
19-Jun-2024 14:07:50.882	4.4249	6.6329	11.53	"running"
19-Jun-2024 14:07:50.982	1.5272	8.1075	12.054	"running"
19-Jun-2024 14:07:51.084	-0.60538	4.9256	2.3037	"running"
19-Jun-2024 14:07:51.185	-3.0592	4.5625	7.7085	"running"
19-Jun-2024 14:07:51.286	0.16451	7.1581	16.828	"running"
19-Jun-2024 14:07:51.387	1.5171	2.6692	12.108	"running"
19-Jun-2024 14:07:51.488	2.0387	1.2849	2.9677	"running"
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19-Jun-2024 14:07:51.690	2.0112	7.0439	11.873	"running"
19-Jun-2024 14:07:51.791	0.24646	5.6806	10.484	"running"
19-Jun-2024 14:07:51.892	-0.73161	2.9013	4.0738	"running"
19-Jun-2024 14:07:51.993	-2.6812	3.4516	5.3839	"running"
19-Jun-2024 14:07:52.094	-2.8612	3.3153	18.358	"running"
19-Jun-2024 14:07:52.195	1.0026	3.064	9.4349	"running"
19-Jun-2024 14:07:52.296	3.0215	0.99003	4.5302	"running"
19-Jun-2024 14:07:52.397	3.4415	3.396	7.3113	"running"
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19-Jun-2024 14:07:52.599	1.745	4.2622	10.998	"running"
19-Jun-2024 14:07:52.700	-0.44267	1.8233	3.1089	"running"
19-Jun-2024 14:07:52.801	-1.4644	4.4931	6.8183	"running"
19-Jun-2024 14:07:52.902	-2.2875	9.0401	11.056	"running"
19-Jun-2024 14:07:53.003	-0.68136	5.7661	9.5396	"running"
19-Jun-2024 14:07:53.104	1.7115	2.1691	4.3896	"running"
19-Jun-2024 14:07:53.205	3.5157	4.5864	3.5569	"running"
19-Jun-2024 14:07:53.306	4.8126	10.053	11.131	"running"
19-Jun-2024 14:07:53.407	0.29252	5.9228	6.9338	"running"
19-Jun-2024 14:07:53.508	-4.1743	2.7308	-0.14477	"running"
19-Jun-2024 14:07:53.609	-1.8867	8.0363	5.9839	"running"
19-Jun-2024 14:07:53.710	5.8959	13.146	21.11	"running"
19-Jun-2024 14:07:53.811	3.149	5.1529	10.158	"running"
19-Jun-2024 14:07:53.912	2.5053	-1.118	0.13101	"running"
19-Jun-2024 14:07:54.013	2.6626	-0.93739	-1.9986	"running"
19-Jun-2024 14:07:54.114	7.4279	5.5753	11.85	"running"
19-Jun-2024 14:07:54.215	6.3404	2.6662	29.023	"running"
19-Jun-2024 14:07:54.316	4.3029	2.5723	4.4417	"running"
19-Jun-2024 14:07:54.417	-3.9075	0.026919	1.4483	"running"
19-Jun-2024 14:07:54.518	-3.4995	2.7894	3.5007	"running"
19-Jun-2024 14:07:54.619	3.9643	6.3362	24.635	"running"
19-Jun-2024 14:07:54.720	-2.0297	0.25005	13.044	"running"
19-Jun-2024 14:07:54.821	-0.99482	-3.9565	4.2467	"running"
19-Jun-2024 14:07:54.922	6.2447	-1.1444	0.86501	"running"
19-Jun-2024 14:07:55.023	7.6672	3.0706	15.352	"running"
19-Jun-2024 14:07:55.124	9.2231	4.2652	11.255	"running"
19-Jun-2024 14:07:55.225	0.533	4.7761	-1.4806	"running"
19-Jun-2024 14:07:55.326	1.142	8.342	9.4421	"running"
19-Jun-2024 14:07:55.427	7.7157	4.2156	29.849	"running"
19-Jun-2024 14:07:55.528	3.7908	-0.39721	6.9087	"running"
19-Jun-2024 14:07:55.629	1.3693	-2.0148	0.32782	"running"
19-Jun-2024 14:07:55.730	6.4421	-1.3771	-0.77348	"running"
19-Jun-2024 14:07:55.831	11.477	3.1472	13.703	"running"
19-Jun-2024 14:07:55.932	7.3609	5.881	19.515	"running"
19-Jun-2024 14:07:56.033	-0.34576	4.1635	0.37328	"running"
19-Jun-2024 14:07:56.134	-5.1984	2.8845	3.1101	"running"
19-Jun-2024 14:07:56.235	8.3731	6.6646	21.017	"running"
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19-Jun-2024 14:07:56.437	1.8311	0.94576	-0.60479	"running"
19-Jun-2024 14:07:56.538	2.9737	1.2329	1.6307	"running"
19-Jun-2024 14:07:56.639	5.0477	4.346	12.887	"running"
19-Jun-2024 14:07:56.740	1.1557	3.5061	17.191	"running"
19-Jun-2024 14:07:56.841	1.1821	3.4493	3.743	"running"
19-Jun-2024 14:07:56.942	-0.072383	2.6501	4.4297	"running"

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19-Jun-2024 14:07:57.043    -0.65085      2.5789       13.29    "running"
19-Jun-2024 14:07:57.144    -0.054437     0.18485     16.707    "running"
19-Jun-2024 14:07:57.245     3.4205       1.8485      8.9557    "running"
19-Jun-2024 13:41:59.009    -0.28252      4.6998      8.1259    "sitting"
19-Jun-2024 13:41:59.029    -0.32322      4.7812      8.3893    "sitting"
19-Jun-2024 13:41:59.048    -0.39026      4.7333      8.6215    "sitting"
19-Jun-2024 13:41:59.067    -0.43096      4.8435      8.7508    "sitting"
19-Jun-2024 13:41:59.087    -0.46687      4.8554      8.7508    "sitting"
19-Jun-2024 13:41:59.106    -0.46448      4.8818      8.6981    "sitting"
19-Jun-2024 13:41:59.125    -0.54348      4.9081      8.6287    "sitting"
19-Jun-2024 13:41:59.144    -0.64404      4.9249      8.5162    "sitting"
19-Jun-2024 13:41:59.163    -0.62967      4.9153      8.3821    "sitting"
19-Jun-2024 13:41:59.182    -0.60573      4.9105      8.3366    "sitting"
19-Jun-2024 13:41:59.201    -0.53151      4.8483      8.4132    "sitting"
19-Jun-2024 13:41:59.220    -0.50757      4.8195         8.6    "sitting"
19-Jun-2024 13:41:59.239    -0.50997      4.8147      8.6574    "sitting"
19-Jun-2024 13:41:59.258    -0.50997      4.8698      8.6335    "sitting"
19-Jun-2024 13:41:59.277    -0.51475      4.9129      8.6167    "sitting"
19-Jun-2024 13:41:59.297    -0.51236      4.8914       8.588    "sitting"
19-Jun-2024 13:41:59.316    -0.50518      4.8507      8.4898    "sitting"
19-Jun-2024 13:41:59.335    -0.49799      4.8363      8.4013    "sitting"
19-Jun-2024 13:41:59.355    -0.54827      4.8674      8.4515    "sitting"
19-Jun-2024 13:41:59.374    -0.63446      4.9201      8.6167    "sitting"
19-Jun-2024 13:41:59.393    -0.59855      4.9297      8.7053    "sitting"
19-Jun-2024 13:41:59.413    -0.56024       4.853      8.5688    "sitting"
19-Jun-2024 13:41:59.432    -0.48124      4.8147      8.4898    "sitting"
19-Jun-2024 13:41:59.451    -0.55546      4.8243      8.5521    "sitting"
19-Jun-2024 13:41:59.471    -0.59616      4.9009      8.5593    "sitting"
19-Jun-2024 13:41:59.490    -0.60334      4.9105      8.4707    "sitting"
19-Jun-2024 13:41:59.510    -0.61292       4.889      8.4779    "sitting"
19-Jun-2024 13:41:59.529    -0.58418      4.8866      8.5617    "sitting"
19-Jun-2024 13:41:59.548    -0.60094      4.9105      8.6143    "sitting"
19-Jun-2024 13:41:59.568    -0.58658      4.9033      8.5976    "sitting"
19-Jun-2024 13:41:59.587    -0.54827       4.877      8.5473    "sitting"
19-Jun-2024 13:41:59.606    -0.54588      4.8914      8.4994    "sitting"
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19-Jun-2024 13:41:59.682    -0.53391      4.8937      8.6024    "sitting"
19-Jun-2024 13:41:59.702    -0.53151      4.8961       8.576    "sitting"
19-Jun-2024 13:41:59.721    -0.33519      4.9823      8.5497    "sitting"
19-Jun-2024 13:41:59.740     0.59616      4.9345      8.6048    "sitting"
19-Jun-2024 13:41:59.759     -1.4676      5.3822      8.4443    "sitting"
19-Jun-2024 13:41:59.778      1.5251       5.035      8.4348    "sitting"
19-Jun-2024 13:41:59.798     -1.4844      5.4396      8.5042    "sitting"
19-Jun-2024 13:41:59.817     -1.0127      5.4708      8.5784    "sitting"
19-Jun-2024 13:41:59.836      1.3886      4.9775      8.5928    "sitting"
19-Jun-2024 13:41:59.856     -2.0207      4.5753      8.6072    "sitting"
19-Jun-2024 13:41:59.875      1.2043       5.023      8.5258    "sitting"
19-Jun-2024 13:41:59.895     -2.0542      5.2505      8.5042    "sitting"
19-Jun-2024 13:41:59.915     -1.7023       4.525      8.4851    "sitting"
19-Jun-2024 13:41:59.933     0.22984      4.4341      8.4611    "sitting"
19-Jun-2024 13:41:59.953     0.58658      5.3056      8.5066    "sitting"
19-Jun-2024 13:41:59.973      1.4605      5.0422      8.5856    "sitting"
19-Jun-2024 13:41:59.992     -2.5379      5.0877      8.6024    "sitting"
19-Jun-2024 13:42:00.011    -0.96486      5.3654      8.5569    "sitting"
19-Jun-2024 13:42:00.030     -2.1308      4.9488      8.5377    "sitting"
19-Jun-2024 13:42:00.050     0.70868       4.853      8.5688    "sitting"
19-Jun-2024 13:42:00.069    -0.59855      4.7501      8.4707    "sitting"
19-Jun-2024 13:42:00.088     -0.6201      4.8052      8.4372    "sitting"
19-Jun-2024 13:42:00.107    -0.37589      4.9919      8.5545    "sitting"
19-Jun-2024 13:42:00.126    -0.69671      4.9728      8.6024    "sitting"
19-Jun-2024 13:42:00.145    -0.52433      4.9033       8.497    "sitting"
19-Jun-2024 13:42:00.164    -0.58418      4.8842      8.5401    "sitting"
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19-Jun-2024 13:42:00.184    -0.54109    4.8937    8.5186    "sitting"
19-Jun-2024 13:42:00.203    -0.65841    4.6615    8.4851    "sitting"
19-Jun-2024 13:42:00.223    -1.8483     5.023     8.4204    "sitting"
19-Jun-2024 13:42:00.242    -2.2529     4.6304    8.5473    "sitting"
19-Jun-2024 13:42:00.262    -0.80445    5.5019    8.5425    "sitting"
19-Jun-2024 13:42:00.281    -2.4253     4.7118    8.5162    "sitting"
19-Jun-2024 13:42:00.301    -2.1644     4.5897    8.5473    "sitting"
19-Jun-2024 13:42:00.320    -2.3224     5.2074    8.576     "sitting"
19-Jun-2024 13:42:00.340     1.3192     5.0302    8.5186    "sitting"
19-Jun-2024 13:42:00.359    -2.3655     4.8076    8.5329    "sitting"
19-Jun-2024 13:42:00.379     1.1612     4.6136    8.4467    "sitting"
19-Jun-2024 13:42:00.398     0.031125   5.375     8.5281    "sitting"
19-Jun-2024 13:42:00.418    -2.0375     5.2265    8.5856    "sitting"
19-Jun-2024 13:42:00.437    -0.22745    4.3598    8.5712    "sitting"
19-Jun-2024 13:42:00.456    -0.95529    4.3479    8.5281    "sitting"
19-Jun-2024 13:42:00.476     0.65122    5.3056    8.4587    "sitting"
19-Jun-2024 13:42:00.495     1.3527     4.9009    8.5234    "sitting"
19-Jun-2024 13:42:00.514    -0.46208    5.2744    8.5665    "sitting"
19-Jun-2024 13:42:00.533    -0.48124    4.6974    8.5425    "sitting"
19-Jun-2024 13:42:00.552    -1.2282     4.8147    8.4108    "sitting"
19-Jun-2024 13:42:00.571    -0.78769    4.7645    8.4252    "sitting"
19-Jun-2024 13:42:00.590    -0.32322    4.877     8.5281    "sitting"
19-Jun-2024 13:42:00.609    -0.46926    4.9321    8.6       "sitting"
19-Jun-2024 13:42:00.628    -0.46448    4.8674    8.4803    "sitting"
19-Jun-2024 13:42:00.648    -0.58658    4.9129    8.5712    "sitting"
19-Jun-2024 13:42:00.667    -0.54109    4.9345    8.5377    "sitting"
19-Jun-2024 13:42:00.687    -0.55306    4.8722    8.4779    "sitting"
19-Jun-2024 13:42:00.706    -0.50997    4.9129    8.5114    "sitting"
19-Jun-2024 13:42:00.725    -0.54348    4.9225    8.5473    "sitting"
19-Jun-2024 13:42:00.745    -0.56264    4.9201    8.5497    "sitting"
19-Jun-2024 13:42:00.764    -0.50039    4.9033    8.4994    "sitting"
19-Jun-2024 13:42:00.783    -0.50278    4.8818    8.5305    "sitting"
19-Jun-2024 13:42:00.802    -0.52912    4.8842    8.5401    "sitting"
19-Jun-2024 13:42:00.822    -0.53391    4.8842    8.5353    "sitting"
19-Jun-2024 13:42:00.841    -0.5363     4.8961    8.5162    "sitting"
19-Jun-2024 13:42:00.860    -0.51475    4.9009    8.4803    "sitting"
19-Jun-2024 13:42:00.879    -0.47405    4.8985    8.5066    "sitting"
19-Jun-2024 13:42:00.898    -0.51954    4.9033    8.5569    "sitting"
19-Jun-2024 13:42:00.917    -0.56264    4.9129    8.5234    "sitting"
19-Jun-2024 13:42:00.936    -0.55067    4.9033    8.5258    "sitting"
19-Jun-2024 13:42:00.955    -0.51954    4.9033    8.4851    "sitting"
19-Jun-2024 13:42:00.974    -0.50997    4.9153    8.5186    "sitting"
19-Jun-2024 13:42:00.993    -0.50278    4.9129    8.5377    "sitting"
19-Jun-2024 13:42:01.013    -0.50757    4.9009    8.521     "sitting"
19-Jun-2024 13:42:01.032    -0.53391    4.9033    8.5042    "sitting"
19-Jun-2024 13:42:01.051    -0.5387     4.9033    8.497     "sitting"
19-Jun-2024 13:42:01.071    -0.57221    4.9033    8.5665    "sitting"
19-Jun-2024 13:42:01.090    -0.55785    4.8961    8.5521    "sitting"
19-Jun-2024 13:42:01.109    -0.5363     4.8914    8.497     "sitting"
19-Jun-2024 13:42:01.129    -0.5387     4.9105    8.5066    "sitting"
19-Jun-2024 13:42:01.148    -0.54348    4.9129    8.5329    "sitting"
19-Jun-2024 13:42:01.167    -0.52433    4.9057    8.5377    "sitting"
19-Jun-2024 13:42:01.186    -0.51475    4.8985    8.5305    "sitting"
19-Jun-2024 13:42:01.206    -0.46208    4.8698    8.5018    "sitting"
19-Jun-2024 13:42:01.225    -0.4956     4.8842    8.5401    "sitting"
19-Jun-2024 13:42:01.244    -0.51715    4.9105    8.5425    "sitting"
19-Jun-2024 13:42:01.263    -0.5363     4.9201    8.5569    "sitting"
19-Jun-2024 13:42:01.282    -0.52672    4.8985    8.5497    "sitting"
19-Jun-2024 13:42:01.301    -0.51954    4.8914    8.4731    "sitting"
19-Jun-2024 13:42:01.320    -0.54348    4.8961    8.5018    "sitting"
19-Jun-2024 13:42:01.339    -0.56503    4.8985    8.5234    "sitting"
19-Jun-2024 13:42:01.358    -0.52672    4.9129    8.5856    "sitting"
19-Jun-2024 13:42:01.377    -0.54109    4.9129    8.5234    "sitting"
19-Jun-2024 13:42:01.396    -0.51954    4.9105    8.4563    "sitting"
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19-Jun-2024 13:42:01.415    -0.52672    4.9057    8.5377    "sitting"
19-Jun-2024 13:42:01.434    -0.52433    4.8961    8.5521    "sitting"
19-Jun-2024 13:42:01.453    -0.52194    4.889     8.5425    "sitting"
19-Jun-2024 13:42:01.473    -0.5387     4.8985    8.5425    "sitting"
19-Jun-2024 13:42:01.492    -0.54827    4.9249    8.5353    "sitting"
19-Jun-2024 13:42:01.511    -0.53151    4.9345    8.5186    "sitting"
19-Jun-2024 13:42:01.530    -0.49321    4.8961    8.5353    "sitting"
19-Jun-2024 13:42:01.550    -0.50757    4.8842    8.5281    "sitting"
19-Jun-2024 13:42:01.569    -0.54348    4.8914    8.5186    "sitting"
19-Jun-2024 13:42:01.588    -0.53391    4.8866    8.4946    "sitting"
19-Jun-2024 13:42:01.607    -0.53151    4.889     8.4922    "sitting"
19-Jun-2024 13:42:01.626    -0.51236    4.8937    8.5234    "sitting"
19-Jun-2024 13:42:01.645    -0.49321    4.9081    8.5641    "sitting"
19-Jun-2024 13:42:01.664    -0.50757    4.8961    8.5641    "sitting"
19-Jun-2024 13:42:01.683    -0.54348    4.9081    8.5258    "sitting"
19-Jun-2024 13:42:01.702    -0.56264    4.9153    8.5377    "sitting"
19-Jun-2024 13:42:01.721    -0.54109    4.9129    8.4994    "sitting"
19-Jun-2024 13:42:01.741    -0.51475    4.9273    8.4994    "sitting"
19-Jun-2024 13:42:01.760    -0.48842    4.9105    8.4874    "sitting"
19-Jun-2024 13:42:01.779    -0.51236    4.889     8.5234    "sitting"
19-Jun-2024 13:42:01.798    -0.53391    4.8914    8.5593    "sitting"
19-Jun-2024 13:42:01.818    -0.5387     4.8937    8.521     "sitting"
19-Jun-2024 13:42:01.837    -0.56503    4.9009    8.5258    "sitting"
19-Jun-2024 13:42:01.857    -0.56503    4.8842    8.5401    "sitting"
19-Jun-2024 13:42:01.876    -0.54827    4.9057    8.5617    "sitting"
19-Jun-2024 13:42:01.895    -0.52194    4.9033    8.5114    "sitting"
19-Jun-2024 13:42:01.914    -0.54348    4.9129    8.509     "sitting"
19-Jun-2024 13:42:01.933    -0.55546    4.9201    8.5449    "sitting"
19-Jun-2024 13:42:01.952    -0.50518    4.8914    8.5617    "sitting"
19-Jun-2024 13:42:01.972    -0.48363    4.877     8.5353    "sitting"
19-Jun-2024 13:42:01.991    -0.47405    4.8937    8.5066    "sitting"
19-Jun-2024 13:42:02.010    -0.51715    4.889     8.521     "sitting"
19-Jun-2024 13:42:02.029    -0.56264    4.8937    8.5593    "sitting"
19-Jun-2024 13:42:02.048    -0.56743    4.9009    8.5281    "sitting"
19-Jun-2024 13:42:02.068    -0.57221    4.9009    8.5066    "sitting"
19-Jun-2024 13:42:02.087    -0.55785    4.889     8.5162    "sitting"
19-Jun-2024 13:42:02.106    -0.54348    4.8866    8.5688    "sitting"
19-Jun-2024 13:42:02.125    -0.55546    4.8914    8.5593    "sitting"
19-Jun-2024 13:42:02.144    -0.5363     4.8961    8.5162    "sitting"
19-Jun-2024 13:42:02.164    -0.55546    4.8818    8.5162    "sitting"
19-Jun-2024 13:42:02.183    -0.54348    4.8914    8.5545    "sitting"
19-Jun-2024 13:42:02.202    -0.52912    4.889     8.5425    "sitting"
19-Jun-2024 13:42:02.221    -0.55546    4.8961    8.5617    "sitting"
19-Jun-2024 13:42:02.241    -0.56743    4.9129    8.5545    "sitting"
19-Jun-2024 13:42:02.260    -0.56982    4.9249    8.5162    "sitting"
19-Jun-2024 13:42:02.280    -0.54109    4.8985    8.521     "sitting"
19-Jun-2024 13:42:02.299    -0.54109    4.8818    8.5545    "sitting"
19-Jun-2024 13:42:02.318    -0.49321    4.8578    8.5377    "sitting"
19-Jun-2024 13:42:02.337    -0.47884    4.8291    8.5114    "sitting"
19-Jun-2024 13:42:02.356    -0.51475    4.8698    8.5305    "sitting"
19-Jun-2024 13:42:02.375    -0.58658    4.9009    8.588     "sitting"
19-Jun-2024 13:42:02.395    -0.55546    4.8866    8.5712    "sitting"
19-Jun-2024 13:42:02.414    -0.56264    4.9057    8.497     "sitting"
19-Jun-2024 13:42:02.433    -0.58658    4.9129    8.4827    "sitting"
19-Jun-2024 13:42:02.452    -0.58658    4.8961    8.5353    "sitting"
19-Jun-2024 13:42:02.472    -0.58418    4.9177    8.5305    "sitting"
19-Jun-2024 13:42:02.491    -0.55067    4.8961    8.4874    "sitting"
19-Jun-2024 13:42:02.510    -0.55546    4.8914    8.5066    "sitting"
19-Jun-2024 13:42:02.529    -0.56024    4.8866    8.5712    "sitting"
19-Jun-2024 13:42:02.548    -0.58897    4.8746    8.6143    "sitting"
19-Jun-2024 13:42:02.568    -0.54109    4.8722    8.5545    "sitting"
19-Jun-2024 13:42:02.587    -0.49799    4.8626    8.4874    "sitting"
19-Jun-2024 13:42:02.606    -0.53391    4.8866    8.4707    "sitting"
19-Jun-2024 13:42:02.625    -0.58658    4.9057    8.5401    "sitting"
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19-Jun-2024 13:42:02.644    -0.59855    4.8961    8.5784    "sitting"
19-Jun-2024 13:42:02.664    -0.54348    4.9009    8.5401    "sitting"
19-Jun-2024 13:42:02.683    -0.51954    4.9033    8.521     "sitting"
19-Jun-2024 13:42:02.702    -0.50757    4.8746    8.5353    "sitting"
19-Jun-2024 13:42:02.721    -0.51954    4.8818    8.5521    "sitting"
19-Jun-2024 13:42:02.741    -0.53151    4.8722    8.5473    "sitting"
19-Jun-2024 13:42:02.760    -0.52194    4.865     8.576     "sitting"
19-Jun-2024 13:42:02.779    -0.59616    4.865     8.576     "sitting"
19-Jun-2024 13:42:02.798    -0.577      4.8914    8.5281    "sitting"
19-Jun-2024 13:42:02.818    -0.59855    4.8674    8.4994    "sitting"
19-Jun-2024 13:42:02.837    -0.61292    4.877     8.5473    "sitting"
19-Jun-2024 13:42:02.856    -0.58179    4.8985    8.5401    "sitting"
19-Jun-2024 13:42:02.875    -0.577      4.9225    8.5617    "sitting"
19-Jun-2024 13:42:02.894    -0.55546    4.889     8.576     "sitting"
19-Jun-2024 13:42:02.913    -0.48842    4.8722    8.521     "sitting"
19-Jun-2024 13:42:02.932    -0.51475    4.8722    8.5162    "sitting"
19-Jun-2024 13:42:02.951    -0.51475    4.877     8.521     "sitting"
19-Jun-2024 13:42:02.970    -0.55785    4.8602    8.5569    "sitting"
19-Jun-2024 13:42:02.989    -0.57221    4.8985    8.5593    "sitting"
19-Jun-2024 13:42:03.009    -0.56264    4.8914    8.5473    "sitting"
19-Jun-2024 13:42:03.028    -0.577      4.8914    8.5497    "sitting"
19-Jun-2024 13:42:03.048    -0.54109    4.8746    8.509     "sitting"
19-Jun-2024 13:42:03.067    -0.5363     4.8722    8.5114    "sitting"
19-Jun-2024 13:42:03.086    -0.56264    4.9033    8.5473    "sitting"
19-Jun-2024 13:42:03.105    -0.54348    4.9129    8.5281    "sitting"
19-Jun-2024 13:42:03.124    -0.53151    4.9057    8.5162    "sitting"
19-Jun-2024 13:42:03.143    -0.51954    4.8937    8.5569    "sitting"
19-Jun-2024 13:42:03.163    -0.52194    4.8746    8.5473    "sitting"
19-Jun-2024 13:42:03.182    -0.56024    4.8842    8.5401    "sitting"
19-Jun-2024 13:42:03.201    -0.56024    4.9033    8.5042    "sitting"
19-Jun-2024 13:42:03.221    -0.5794     4.8794    8.5162    "sitting"
19-Jun-2024 13:42:03.240    -0.57461    4.8985    8.4874    "sitting"
19-Jun-2024 13:42:03.259    -0.58658    4.8914    8.5018    "sitting"
19-Jun-2024 13:42:03.278    -0.56982    4.9057    8.5784    "sitting"
19-Jun-2024 13:42:03.297    -0.51954    4.9033    8.5617    "sitting"
19-Jun-2024 13:42:03.317    -0.47405    4.8937    8.521     "sitting"
19-Jun-2024 13:42:03.336    -0.51236    4.8985    8.4851    "sitting"
19-Jun-2024 13:42:03.355    -0.55546    4.9033    8.5401    "sitting"
19-Jun-2024 13:42:03.374    -0.54588    4.8842    8.6143    "sitting"
19-Jun-2024 13:42:03.393    -0.54348    4.8818    8.5856    "sitting"
19-Jun-2024 13:42:03.412    -0.50518    4.9033    8.4659    "sitting"
19-Jun-2024 13:42:03.432    -0.55546    4.8722    8.4563    "sitting"
19-Jun-2024 13:42:03.451    -0.56982    4.8818    8.5856    "sitting"
19-Jun-2024 13:42:03.470    -0.5794     4.9201    8.588     "sitting"
19-Jun-2024 13:42:03.489    -0.577      4.9512    8.5138    "sitting"
19-Jun-2024 13:42:03.509    -0.54348    4.9129    8.4683    "sitting"
19-Jun-2024 13:42:03.528    -0.54348    4.9009    8.521     "sitting"
19-Jun-2024 13:42:03.547    -0.53391    4.8961    8.5617    "sitting"
19-Jun-2024 13:42:03.566    -0.51954    4.8626    8.5329    "sitting"
19-Jun-2024 13:42:03.585    -0.52194    4.8866    8.5114    "sitting"
19-Jun-2024 13:42:03.604    -0.54109    4.8842    8.5281    "sitting"
19-Jun-2024 13:42:03.624    -0.54588    4.9057    8.5904    "sitting"
19-Jun-2024 13:42:03.643    -0.54827    4.9057    8.5497    "sitting"
19-Jun-2024 13:42:03.663    -0.52672    4.8961    8.4707    "sitting"
19-Jun-2024 13:42:03.682    -0.54109    4.8746    8.5018    "sitting"
19-Jun-2024 13:42:03.701    -0.54109    4.9105    8.5329    "sitting"
19-Jun-2024 13:42:03.720    -0.50757    4.9249    8.5234    "sitting"
19-Jun-2024 13:42:03.740    -0.52194    4.9201    8.5377    "sitting"
19-Jun-2024 13:42:03.759    -0.51475    4.9057    8.5114    "sitting"
19-Jun-2024 13:42:03.778    -0.50997    4.889     8.5258    "sitting"
19-Jun-2024 13:42:03.797    -0.52433    4.8937    8.576     "sitting"
19-Jun-2024 13:42:03.817    -0.57461    4.8914    8.5377    "sitting"
19-Jun-2024 13:42:03.836    -0.60573    4.9057    8.5066    "sitting"
19-Jun-2024 13:42:03.855    -0.56024    4.9033    8.4851    "sitting"
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19-Jun-2024 13:42:03.874    -0.55546    4.8914    8.4851    "sitting"
19-Jun-2024 13:42:03.893    -0.50757    4.9033    8.5641    "sitting"
19-Jun-2024 13:42:03.912    -0.50757    4.9033    8.5641    "sitting"
19-Jun-2024 13:42:03.931    -0.50757    4.889     8.5425    "sitting"
19-Jun-2024 13:42:03.950    -0.52433    4.889     8.5473    "sitting"
19-Jun-2024 13:42:03.969    -0.51715    4.8866    8.5521    "sitting"
19-Jun-2024 13:42:03.988    -0.50757    4.889     8.5353    "sitting"
19-Jun-2024 13:42:04.008    -0.54588    4.9129    8.509     "sitting"
19-Jun-2024 13:42:04.027    -0.58179    4.9105    8.5688    "sitting"
19-Jun-2024 13:42:04.046    -0.55067    4.8914    8.521     "sitting"
19-Jun-2024 13:42:04.065    -0.52912    4.877     8.4779    "sitting"
19-Jun-2024 13:42:04.084    -0.50278    4.889     8.5162    "sitting"
19-Jun-2024 13:42:04.103    -0.52912    4.889     8.5665    "sitting"
19-Jun-2024 13:42:04.122    -0.54348    4.9057    8.5736    "sitting"
19-Jun-2024 13:42:04.141    -0.57221    4.9033    8.5736    "sitting"
19-Jun-2024 13:42:04.160    -0.55546    4.9009    8.5569    "sitting"
19-Jun-2024 13:42:04.179    -0.51475    4.9249    8.4611    "sitting"
19-Jun-2024 13:42:04.198    -0.54588    4.9297    8.5449    "sitting"
19-Jun-2024 13:42:04.217    -0.56982    4.9057    8.576     "sitting"
19-Jun-2024 13:42:04.236    -0.5387     4.889     8.5114    "sitting"
19-Jun-2024 13:42:04.255    -0.51475    4.8914    8.4779    "sitting"
19-Jun-2024 13:42:04.274    -0.54109    4.8674    8.5401    "sitting"
19-Jun-2024 13:42:04.293    -0.55546    4.8914    8.5473    "sitting"
19-Jun-2024 13:42:04.312    -0.50278    4.8818    8.5401    "sitting"
19-Jun-2024 13:42:04.331    -0.49799    4.8818    8.5353    "sitting"
19-Jun-2024 13:42:04.351    -0.51475    4.9009    8.5066    "sitting"
19-Jun-2024 13:42:04.370    -0.55785    4.9057    8.4946    "sitting"
19-Jun-2024 13:42:04.389    -0.5363     4.8985    8.5545    "sitting"
19-Jun-2024 13:42:04.408    -0.58179    4.9321    8.5784    "sitting"
19-Jun-2024 13:42:04.427    -0.52194    4.9105    8.4851    "sitting"
19-Jun-2024 13:42:04.446    -0.4956     4.8914    8.4731    "sitting"
19-Jun-2024 13:42:04.465    -0.52194    4.9009    8.5258    "sitting"
19-Jun-2024 13:42:04.484    -0.55546    4.9033    8.5497    "sitting"
19-Jun-2024 13:42:04.503    -0.57221    4.8866    8.5784    "sitting"
19-Jun-2024 13:42:04.522    -0.55306    4.889     8.5736    "sitting"
19-Jun-2024 13:42:04.541    -0.52672    4.8961    8.5162    "sitting"
19-Jun-2024 13:42:04.560    -0.5387     4.9009    8.4946    "sitting"
19-Jun-2024 13:42:04.579    -0.54588    4.9009    8.5305    "sitting"
19-Jun-2024 13:42:04.598    -0.55546    4.9009    8.5473    "sitting"
19-Jun-2024 13:42:04.617    -0.54348    4.9033    8.5305    "sitting"
19-Jun-2024 13:42:04.636    -0.50278    4.8961    8.4922    "sitting"
19-Jun-2024 13:42:04.655    -0.47166    4.8842    8.509     "sitting"
19-Jun-2024 13:42:04.674    -0.52672    4.8961    8.5401    "sitting"
19-Jun-2024 13:42:04.693    -0.57461    4.9057    8.5353    "sitting"
19-Jun-2024 13:42:04.712    -0.5794     4.9057    8.5473    "sitting"
19-Jun-2024 13:42:04.732    -0.52912    4.889     8.5377    "sitting"
19-Jun-2024 13:42:04.751    -0.50757    4.8985    8.4922    "sitting"
19-Jun-2024 13:42:04.770    -0.52912    4.9057    8.5281    "sitting"
19-Jun-2024 13:42:04.789    -0.55067    4.8937    8.5521    "sitting"
19-Jun-2024 13:42:04.808    -0.54348    4.9057    8.5401    "sitting"
19-Jun-2024 13:42:04.827    -0.55785    4.9033    8.4898    "sitting"
19-Jun-2024 13:42:04.846    -0.5363     4.9153    8.5258    "sitting"
19-Jun-2024 13:42:04.865    -0.52912    4.9321    8.5832    "sitting"
19-Jun-2024 13:42:04.885    -0.55546    4.9033    8.5425    "sitting"
19-Jun-2024 13:42:04.904    -0.52672    4.8961    8.5162    "sitting"
19-Jun-2024 13:42:04.924    -0.54348    4.9009    8.5138    "sitting"
19-Jun-2024 13:42:04.943    -0.56503    4.9033    8.5497    "sitting"
19-Jun-2024 13:42:04.962    -0.54588    4.9512    8.4252    "sitting"
19-Jun-2024 13:42:04.981    -0.60573    4.9512    8.351     "sitting"
19-Jun-2024 13:42:05.000    -0.60813    4.9775    8.3749    "sitting"
19-Jun-2024 13:42:05.019    -0.57221    4.9321    8.4946    "sitting"
19-Jun-2024 13:42:05.039    -0.54109    4.8435    8.6072    "sitting"
19-Jun-2024 13:42:05.058    -0.51715    4.7764    8.8514    "sitting"
19-Jun-2024 13:42:05.077    -0.45729    4.7812    8.8059    "sitting"
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19-Jun-2024 13:42:05.096    -0.43096    4.8004    8.5401    "sitting"
19-Jun-2024 13:42:05.115    -0.50039    4.8387    8.3917    "sitting"
19-Jun-2024 13:42:05.134    -0.57461    4.8435    8.5401    "sitting"
19-Jun-2024 13:42:05.154    -0.50518     4.798    8.8107    "sitting"
19-Jun-2024 13:42:05.173    -0.51954    5.0494     8.521    "sitting"
19-Jun-2024 13:42:05.192     -0.6201    4.9799    8.2025    "sitting"
19-Jun-2024 13:42:05.211    -0.64643    5.0087    8.3342    "sitting"
19-Jun-2024 13:42:05.230    -0.73023    5.0326    8.5401    "sitting"
19-Jun-2024 13:42:05.249    -0.69432    4.9536    8.5138    "sitting"
19-Jun-2024 13:42:05.269    -0.49321    4.8674    8.4587    "sitting"
19-Jun-2024 13:42:05.288    -0.42377    4.8028     8.509    "sitting"
19-Jun-2024 13:42:05.308     -0.4525    4.8387    8.6072    "sitting"
19-Jun-2024 13:42:05.327    -0.48842    4.8698    8.6383    "sitting"
19-Jun-2024 13:42:05.346    -0.56264    4.9057    8.5952    "sitting"
19-Jun-2024 13:42:05.365     -0.5794    4.9249    8.4922    "sitting"
19-Jun-2024 13:42:05.384    -0.59137     4.956      8.43    "sitting"
19-Jun-2024 13:42:05.403    -0.58658     4.956    8.4372    "sitting"
19-Jun-2024 13:42:05.423     -0.5794    4.9368    8.5281    "sitting"
19-Jun-2024 13:42:05.442     -0.5387    4.9057    8.5042    "sitting"
19-Jun-2024 13:42:05.461    -0.51954    4.8842    8.5258    "sitting"
19-Jun-2024 13:42:05.481    -0.51475     4.877    8.5976    "sitting"
19-Jun-2024 13:42:05.500    -0.54348    4.8698    8.6024    "sitting"
19-Jun-2024 13:42:05.519    -0.56743    4.8818    8.4874    "sitting"
19-Jun-2024 13:42:05.538     -0.5794    4.8961    8.4827    "sitting"
19-Jun-2024 13:42:05.557    -0.62728    4.9345    8.5497    "sitting"
19-Jun-2024 13:42:05.577    -0.62489    4.9416    8.5281    "sitting"
19-Jun-2024 13:42:05.596    -0.56264    4.9009    8.5066    "sitting"
19-Jun-2024 13:42:05.615    -0.52912    4.9033    8.5138    "sitting"
19-Jun-2024 13:42:05.634     -0.5387    4.9057    8.5641    "sitting"
19-Jun-2024 13:42:05.653    -0.56982    4.8698    8.5449    "sitting"
19-Jun-2024 13:42:05.673    -0.51715    4.8602     8.521    "sitting"
19-Jun-2024 13:42:05.692    -0.51954    4.8746    8.5162    "sitting"
19-Jun-2024 13:42:05.711    -0.51715     4.889    8.5521    "sitting"
19-Jun-2024 13:42:05.730    -0.58179    4.8914    8.5473    "sitting"
19-Jun-2024 13:42:05.749    -0.59616    4.8818    8.5162    "sitting"
19-Jun-2024 13:42:05.768    -0.59376    4.8794    8.5066    "sitting"
19-Jun-2024 13:42:05.787    -0.57461    4.9033     8.509    "sitting"
19-Jun-2024 13:42:05.806    -0.56264    4.9177    8.5042    "sitting"
19-Jun-2024 13:42:05.825    -0.56503    4.8937    8.5162    "sitting"
19-Jun-2024 13:42:05.845    -0.52912    4.8937    8.5234    "sitting"
19-Jun-2024 13:42:05.864    -0.54588    4.8985    8.5617    "sitting"
19-Jun-2024 13:42:05.883    -0.56503    4.9009    8.5784    "sitting"
19-Jun-2024 13:42:05.902    -0.58418    4.8937    8.5377    "sitting"
19-Jun-2024 13:42:05.921    -0.57221    4.8674    8.4755    "sitting"
19-Jun-2024 13:42:05.940    -0.57461    4.8602    8.5018    "sitting"
19-Jun-2024 13:42:05.959    -0.59376    4.8818    8.5569    "sitting"
19-Jun-2024 13:42:05.978    -0.61292    4.8914    8.5569    "sitting"
19-Jun-2024 13:42:05.997    -0.58418    4.8985    8.5449    "sitting"
19-Jun-2024 13:42:06.016    -0.56503    4.8937    8.5712    "sitting"
19-Jun-2024 13:42:06.036    -0.52194    4.8937    8.5545    "sitting"
19-Jun-2024 13:42:06.055    -0.56264    4.8698    8.5186    "sitting"
19-Jun-2024 13:42:06.074    -0.52912    4.8698    8.4851    "sitting"
19-Jun-2024 13:42:06.093    -0.56503    4.8554    8.5258    "sitting"
19-Jun-2024 13:42:06.112    -0.57461    4.8842    8.5018    "sitting"
19-Jun-2024 13:42:06.131    -0.59616    4.8842    8.5401    "sitting"
19-Jun-2024 13:42:06.150    -0.61292    4.8866    8.5976    "sitting"
19-Jun-2024 13:42:06.169    -0.61531    4.9057    8.5952    "sitting"
19-Jun-2024 13:42:06.188    -0.63925    4.9273    8.5234    "sitting"
19-Jun-2024 13:42:06.207    -0.60813    4.8937    8.4683    "sitting"
19-Jun-2024 13:42:06.227    -0.55067     4.865    8.4731    "sitting"
19-Jun-2024 13:42:06.246    -0.51954    4.8578    8.5018    "sitting"
19-Jun-2024 13:42:06.265    -0.56743     4.853    8.5712    "sitting"
19-Jun-2024 13:42:06.284    -0.58658    4.8626    8.5832    "sitting"
19-Jun-2024 13:42:06.303     -0.577    4.8866      8.6     "sitting"
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19-Jun-2024 13:42:06.322    -0.55306    4.8914    8.5952    "sitting"
19-Jun-2024 13:42:06.341    -0.59137    4.8914    8.4994    "sitting"
19-Jun-2024 13:42:06.360    -0.6201     4.8674    8.5234    "sitting"
19-Jun-2024 13:42:06.379    -0.58418    4.8483    8.5162    "sitting"
19-Jun-2024 13:42:06.399    -0.56264    4.8866    8.4587    "sitting"
19-Jun-2024 13:42:06.418    -0.56982    4.9057    8.4611    "sitting"
19-Jun-2024 13:42:06.437    -0.57461    4.9081    8.5593    "sitting"
19-Jun-2024 13:42:06.456    -0.58418    4.8937    8.655     "sitting"
19-Jun-2024 13:42:06.475    -0.5363     4.8794    8.5856    "sitting"
19-Jun-2024 13:42:06.494    -0.53151    4.8698    8.4755    "sitting"
19-Jun-2024 13:42:06.513    -0.54109    4.8698    8.4467    "sitting"
19-Jun-2024 13:42:06.532    -0.6201     4.8937    8.4946    "sitting"
19-Jun-2024 13:42:06.551    -0.64165    4.9033    8.5258    "sitting"
19-Jun-2024 13:42:06.570    -0.60094    4.9033    8.509     "sitting"
19-Jun-2024 13:42:06.589    -0.577      4.8842    8.5401    "sitting"
19-Jun-2024 13:42:06.608    -0.55785    4.8842    8.5641    "sitting"
19-Jun-2024 13:42:06.627    -0.52672    4.8602    8.5186    "sitting"
19-Jun-2024 13:42:06.647    -0.50278    4.8722    8.5353    "sitting"
19-Jun-2024 13:42:06.666    -0.51475    4.8674    8.588     "sitting"
19-Jun-2024 13:42:06.686    -0.52194    4.8914    8.5593    "sitting"
19-Jun-2024 13:42:06.705    -0.56743    4.8866    8.4898    "sitting"
19-Jun-2024 13:42:06.725    -0.56982    4.8937    8.5042    "sitting"
19-Jun-2024 13:42:06.744    -0.58658    4.9129    8.5377    "sitting"
19-Jun-2024 13:42:06.763    -0.57461    4.9297    8.509     "sitting"
19-Jun-2024 13:42:06.782    -0.5794     4.9057    8.5066    "sitting"
19-Jun-2024 13:42:06.801    -0.58897    4.8866    8.5234    "sitting"
19-Jun-2024 13:42:06.820    -0.52672    4.8674    8.5497    "sitting"
19-Jun-2024 13:42:06.840    -0.55306    4.8507    8.5784    "sitting"
19-Jun-2024 13:42:06.859    -0.54109    4.8674    8.4874    "sitting"
19-Jun-2024 13:42:06.879    -0.54348    4.8866    8.5018    "sitting"
19-Jun-2024 13:42:06.898    -0.57221    4.9009    8.5569    "sitting"
19-Jun-2024 13:42:06.917    -0.59616    4.9201    8.5688    "sitting"
19-Jun-2024 13:42:06.936    -0.577      4.889     8.5114    "sitting"
19-Jun-2024 13:42:06.955    -0.56264    4.8794    8.5114    "sitting"
19-Jun-2024 13:42:06.974    -0.52194    4.8866    8.5138    "sitting"
19-Jun-2024 13:42:06.993    -0.5363     4.9057    8.5234    "sitting"
19-Jun-2024 13:42:07.012    -0.51475    4.9033    8.5473    "sitting"
19-Jun-2024 13:42:07.031    -0.52672    4.8985    8.5353    "sitting"
19-Jun-2024 13:42:07.050    -0.5363     4.8866    8.5234    "sitting"
19-Jun-2024 13:42:07.069    -0.54827    4.8746    8.5281    "sitting"
19-Jun-2024 13:42:07.088    -0.57221    4.8842    8.5425    "sitting"
19-Jun-2024 13:42:07.107    -0.58897    4.889     8.5353    "sitting"
19-Jun-2024 13:42:07.127    -0.59376    4.8794    8.4922    "sitting"
19-Jun-2024 13:42:07.146    -0.59376    4.8914    8.5042    "sitting"
19-Jun-2024 13:42:07.165    -0.58658    4.9033    8.5281    "sitting"
19-Jun-2024 13:42:07.184    -0.54348    4.8914    8.5066    "sitting"
19-Jun-2024 13:42:07.203    -0.48363    4.8746    8.5138    "sitting"
19-Jun-2024 13:42:07.222    -0.48842    4.8746    8.5569    "sitting"
19-Jun-2024 13:42:07.241    -0.51715    4.8818    8.6048    "sitting"
19-Jun-2024 13:42:07.260    -0.55306    4.8746    8.5688    "sitting"
19-Jun-2024 13:42:07.279    -0.57461    4.8746    8.5425    "sitting"
19-Jun-2024 13:42:07.298    -0.61052    4.889     8.509     "sitting"
19-Jun-2024 13:42:07.317    -0.61052    4.9033    8.5234    "sitting"
19-Jun-2024 13:42:07.336    -0.59137    4.9105    8.5377    "sitting"
19-Jun-2024 13:42:07.355    -0.54109    4.8937    8.4851    "sitting"
19-Jun-2024 13:42:07.374    -0.51954    4.8602    8.5401    "sitting"
19-Jun-2024 13:42:07.393    -0.52433    4.8746    8.5856    "sitting"
19-Jun-2024 13:42:07.413    -0.55546    4.8746    8.5928    "sitting"
19-Jun-2024 13:42:07.432    -0.53391    4.853     8.5401    "sitting"
19-Jun-2024 13:42:07.451    -0.52912    4.8674    8.5138    "sitting"
19-Jun-2024 13:42:07.470    -0.54348    4.8937    8.509     "sitting"
19-Jun-2024 13:42:07.489    -0.55306    4.9057    8.521     "sitting"
19-Jun-2024 13:42:07.508    -0.55306    4.8937    8.5234    "sitting"
19-Jun-2024 13:42:07.528    -0.55785    4.8602    8.5281    "sitting"
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19-Jun-2024 13:42:07.547    -0.56024    4.8698    8.5665    "sitting"
19-Jun-2024 13:42:07.567    -0.56982    4.8914    8.5234    "sitting"
19-Jun-2024 13:42:07.586    -0.55785    4.8961    8.5162    "sitting"
19-Jun-2024 13:42:07.606    -0.5363     4.8818    8.5712    "sitting"
19-Jun-2024 13:42:07.625    -0.52194    4.877     8.5641    "sitting"
19-Jun-2024 13:42:07.644    -0.5363     4.8842    8.5114    "sitting"
19-Jun-2024 13:42:07.663    -0.57221    4.8961    8.4946    "sitting"
19-Jun-2024 13:42:07.682    -0.59137    4.8842    8.509     "sitting"
19-Jun-2024 13:42:07.701    -0.58418    4.8961    8.5473    "sitting"
19-Jun-2024 13:42:07.720    -0.56264    4.877     8.5449    "sitting"
19-Jun-2024 13:42:07.739    -0.56982    4.8914    8.5186    "sitting"
19-Jun-2024 13:42:07.759    -0.56503    4.8674    8.5234    "sitting"
19-Jun-2024 13:42:07.778    -0.51236    4.877     8.5449    "sitting"
19-Jun-2024 13:42:07.797    -0.50039    4.865     8.5665    "sitting"
19-Jun-2024 13:42:07.816    -0.49081    4.865     8.5641    "sitting"
19-Jun-2024 13:42:07.835    -0.51475    4.8746    8.5186    "sitting"
19-Jun-2024 13:42:07.854    -0.56024    4.8937    8.5377    "sitting"
19-Jun-2024 13:42:07.873    -0.56264    4.9105    8.5162    "sitting"
19-Jun-2024 13:42:07.892    -0.56024    4.889     8.4994    "sitting"
19-Jun-2024 13:42:07.911    -0.56503    4.8698    8.5425    "sitting"
19-Jun-2024 13:42:07.930    -0.57221    4.8602    8.5545    "sitting"
19-Jun-2024 13:42:07.950    -0.5363     4.8626    8.5186    "sitting"
19-Jun-2024 13:42:07.969    -0.5387     4.877     8.4922    "sitting"
19-Jun-2024 13:42:07.989    -0.5794     4.8961    8.5832    "sitting"
19-Jun-2024 13:42:08.008    -0.60334    4.9153    8.5952    "sitting"
19-Jun-2024 13:42:08.027    -0.55785    4.9105    8.521     "sitting"
19-Jun-2024 13:42:08.046    -0.52433    4.8722    8.5162    "sitting"
19-Jun-2024 13:42:08.065    -0.50278    4.865     8.5281    "sitting"
19-Jun-2024 13:42:08.084    -0.54348    4.8722    8.5425    "sitting"
19-Jun-2024 13:42:08.103    -0.54588    4.8578    8.5042    "sitting"
19-Jun-2024 13:42:08.122    -0.54827    4.8602    8.5497    "sitting"
19-Jun-2024 13:42:08.141    -0.52194    4.8818    8.5617    "sitting"
19-Jun-2024 13:42:08.160    -0.50997    4.865     8.5641    "sitting"
19-Jun-2024 13:42:08.179    -0.51475    4.8722    8.5353    "sitting"
19-Jun-2024 13:42:08.198    -0.56982    4.8722    8.4946    "sitting"
19-Jun-2024 13:42:08.217    -0.61052    4.8961    8.5281    "sitting"
19-Jun-2024 13:42:08.236    -0.5794     4.8961    8.5305    "sitting"
19-Jun-2024 13:42:08.255    -0.55785    4.9057    8.5329    "sitting"
19-Jun-2024 13:42:08.274    -0.51475    4.8866    8.4827    "sitting"
19-Jun-2024 13:42:08.294    -0.54348    4.865     8.5138    "sitting"
19-Jun-2024 13:42:08.313    -0.56503    4.8794    8.5784    "sitting"
19-Jun-2024 13:42:08.332    -0.56024    4.8626    8.5952    "sitting"
19-Jun-2024 13:42:08.351    -0.53151    4.8746    8.5186    "sitting"
19-Jun-2024 13:42:08.370    -0.5363     4.889     8.4874    "sitting"
19-Jun-2024 13:42:08.389    -0.60094    4.8985    8.509     "sitting"
19-Jun-2024 13:42:08.409    -0.577      4.8961    8.5449    "sitting"
19-Jun-2024 13:42:08.428    -0.57221    4.8842    8.5521    "sitting"
19-Jun-2024 13:42:08.448    -0.53391    4.8818    8.5234    "sitting"
19-Jun-2024 13:42:08.467    -0.52194    4.8866    8.5353    "sitting"
19-Jun-2024 13:42:08.486    -0.50278    4.8602    8.5353    "sitting"
19-Jun-2024 13:42:08.505    -0.50757    4.8554    8.5665    "sitting"
19-Jun-2024 13:42:08.524    -0.54348    4.8794    8.5449    "sitting"
19-Jun-2024 13:42:08.543    -0.54109    4.8842    8.5353    "sitting"
19-Jun-2024 13:42:08.563    -0.58418    4.8842    8.5186    "sitting"
19-Jun-2024 13:42:08.582    -0.577      4.8674    8.5162    "sitting"
19-Jun-2024 13:42:08.601    -0.56982    4.8722    8.5281    "sitting"
19-Jun-2024 13:42:08.620    -0.55546    4.8746    8.5377    "sitting"
19-Jun-2024 13:42:08.639    -0.55785    4.8818    8.5497    "sitting"
19-Jun-2024 13:42:08.659    -0.54588    4.8842    8.5617    "sitting"
19-Jun-2024 13:42:08.678    -0.54109    4.8818    8.5545    "sitting"
19-Jun-2024 13:42:08.697    -0.54827    4.8866    8.5138    "sitting"
19-Jun-2024 13:42:08.716    -0.54827    4.8842    8.509     "sitting"
19-Jun-2024 13:42:08.735    -0.57461    4.8746    8.5617    "sitting"
19-Jun-2024 13:42:08.754    -0.56264    4.8818    8.5329    "sitting"
```

```
19-Jun-2024 13:42:08.773    -0.55306    4.8674    8.4994    "sitting"
19-Jun-2024 13:42:08.792    -0.56743    4.8842    8.6119    "sitting"
19-Jun-2024 13:42:08.811    -0.55785    4.8985    8.5904    "sitting"
19-Jun-2024 13:42:08.830    -0.55546    4.8794    8.5305    "sitting"
19-Jun-2024 13:42:08.849    -0.52194    4.8626    8.5138    "sitting"
19-Jun-2024 13:42:08.868    -0.54109    4.8626    8.5281    "sitting"
19-Jun-2024 13:42:08.887    -0.56982    4.8602     8.521    "sitting"
19-Jun-2024 13:42:08.906    -0.57221    4.8602    8.5688    "sitting"
19-Jun-2024 13:42:08.925    -0.57221    4.8554    8.5641    "sitting"
19-Jun-2024 13:42:08.945     -0.5387    4.8674    8.5545    "sitting"
19-Jun-2024 13:42:08.964    -0.53391    4.8602    8.5617    "sitting"
19-Jun-2024 13:42:08.983    -0.55785    4.8842    8.5066    "sitting"
19-Jun-2024 13:42:09.002    -0.60573    4.8674    8.5329    "sitting"
19-Jun-2024 13:42:09.022    -0.60334     4.877    8.5305    "sitting"
19-Jun-2024 13:42:09.041    -0.60573    4.8818    8.5401    "sitting"
19-Jun-2024 13:42:09.061    -0.55785    4.8842    8.5449    "sitting"
19-Jun-2024 13:42:09.080    -0.53151    4.8602    8.5569    "sitting"
19-Jun-2024 13:42:09.099    -0.53391    4.8602    8.5593    "sitting"
19-Jun-2024 13:42:09.118    -0.54588     4.853     8.588    "sitting"
19-Jun-2024 13:42:09.138    -0.56264    4.8507    8.5617    "sitting"
19-Jun-2024 13:42:09.157    -0.55306    4.8626     8.521    "sitting"
19-Jun-2024 13:42:09.176    -0.59855     4.889    8.5066    "sitting"
19-Jun-2024 13:42:09.195    -0.60094    4.8722     8.521    "sitting"
19-Jun-2024 13:42:09.214     -0.6201    4.8794    8.5473    "sitting"
19-Jun-2024 13:42:09.233    -0.58179    4.8674    8.5641    "sitting"
19-Jun-2024 13:42:09.252    -0.55067    4.8578    8.5712    "sitting"
19-Jun-2024 13:42:09.271    -0.52194    4.8459    8.5688    "sitting"
19-Jun-2024 13:42:09.290     -0.5363    4.8602    8.5736    "sitting"
19-Jun-2024 13:42:09.309    -0.52194    4.8698    8.5353    "sitting"
19-Jun-2024 13:42:09.328    -0.54588     4.877    8.5497    "sitting"
19-Jun-2024 13:42:09.347    -0.58897     4.877    8.5353    "sitting"
19-Jun-2024 13:42:09.366    -0.62489     4.853    8.5449    "sitting"
19-Jun-2024 13:42:09.385    -0.60813    4.8483    8.5712    "sitting"
19-Jun-2024 13:42:09.404     -0.5794     4.853    8.5665    "sitting"
19-Jun-2024 13:42:09.423    -0.55067    4.8602    8.5066    "sitting"
19-Jun-2024 13:42:09.443    -0.58658    4.8602    8.5617    "sitting"
19-Jun-2024 13:42:09.462    -0.56743    4.8554    8.6311    "sitting"
19-Jun-2024 13:42:09.481     -0.577    4.8842    8.5617    "sitting"
19-Jun-2024 13:42:09.500    -0.58658    4.8914     8.497    "sitting"
19-Jun-2024 13:42:09.520    -0.56024     4.853    8.5234    "sitting"
19-Jun-2024 13:42:09.539    -0.55306    4.8483    8.5497    "sitting"
19-Jun-2024 13:42:09.558    -0.56264    4.8363    8.5641    "sitting"
19-Jun-2024 13:42:09.577    -0.56982    4.8291    8.5401    "sitting"
19-Jun-2024 13:42:09.596    -0.57461    4.8507    8.5593    "sitting"
19-Jun-2024 13:42:09.615    -0.56982    4.8363    8.5976    "sitting"
19-Jun-2024 13:42:09.634    -0.55067    4.8339    8.5521    "sitting"
19-Jun-2024 13:42:09.653    -0.59376    4.8483     8.497    "sitting"
19-Jun-2024 13:42:09.673    -0.58179     4.853    8.5281    "sitting"
19-Jun-2024 13:42:09.692    -0.58418    4.8698    8.5497    "sitting"
19-Jun-2024 13:42:09.711    -0.56264    4.8578    8.5665    "sitting"
19-Jun-2024 13:42:09.730    -0.60094     4.865    8.5641    "sitting"
19-Jun-2024 13:42:09.749    -0.58658    4.8435    8.5641    "sitting"
19-Jun-2024 13:42:09.768     -0.577    4.8435    8.5856    "sitting"
19-Jun-2024 13:42:09.787    -0.57461    4.8387    8.5784    "sitting"
19-Jun-2024 13:42:09.806    -0.60334    4.8435    8.5353    "sitting"
19-Jun-2024 13:42:09.825    -0.61052    4.8554    8.5066    "sitting"
19-Jun-2024 13:42:09.844    -0.64165    4.8674    8.4994    "sitting"
19-Jun-2024 13:42:09.864    -0.61052    4.8626    8.5258    "sitting"
19-Jun-2024 13:42:09.883    -0.60334    4.8602    8.5569    "sitting"
19-Jun-2024 13:42:09.903    -0.57461     4.853    8.5593    "sitting"
19-Jun-2024 13:42:09.922    -0.55067    4.8459    8.5569    "sitting"
19-Jun-2024 13:42:09.941    -0.52433    4.8554    8.5712    "sitting"
19-Jun-2024 13:42:09.960    -0.56503     4.853    8.5473    "sitting"
19-Jun-2024 13:42:09.979    -0.58897    4.8435     8.588    "sitting"
```

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19-Jun-2024 13:42:09.998    -0.5794     4.8219     8.5784    "sitting"
19-Jun-2024 13:42:10.017    -0.59855    4.8411     8.5473    "sitting"
19-Jun-2024 13:42:10.036    -0.60094    4.8483     8.5066    "sitting"
19-Jun-2024 13:42:10.055    -0.64643    4.8411     8.5808    "sitting"
19-Jun-2024 13:42:10.074    -0.59855    4.8483     8.6024    "sitting"
19-Jun-2024 13:42:10.094    -0.61052    4.877      8.5784    "sitting"
19-Jun-2024 13:42:10.113    -0.577      4.8698     8.5281    "sitting"
19-Jun-2024 13:42:10.132    -0.52912    4.8507     8.5258    "sitting"
19-Jun-2024 13:42:10.151    -0.53151    4.8507     8.5281    "sitting"
19-Jun-2024 13:42:10.170    -0.53151    4.8363     8.5425    "sitting"
19-Jun-2024 13:42:10.189    -0.60573    4.8435     8.5641    "sitting"
19-Jun-2024 13:42:10.208    -0.62249    4.8554     8.5736    "sitting"
19-Jun-2024 13:42:10.227    -0.59376    4.8363     8.5688    "sitting"
19-Jun-2024 13:42:10.246    -0.54348    4.8578     8.5353    "sitting"
19-Jun-2024 13:42:10.265    -0.56264    4.8315     8.5281    "sitting"
19-Jun-2024 13:42:10.284    -0.58418    4.8435     8.5377    "sitting"
19-Jun-2024 13:42:10.303    -0.55546    4.8602     8.5329    "sitting"
19-Jun-2024 13:42:10.322    -0.55067    4.8746     8.5258    "sitting"
19-Jun-2024 13:42:10.341    -0.58658    4.877      8.5712    "sitting"
19-Jun-2024 13:42:10.360    -0.58897    4.8674     8.6096    "sitting"
19-Jun-2024 13:42:10.379    -0.57461    4.865      8.5784    "sitting"
19-Jun-2024 13:42:10.399    -0.58897    4.8435     8.5497    "sitting"
19-Jun-2024 13:42:10.418    -0.59137    4.8387     8.5234    "sitting"
19-Jun-2024 13:42:10.438    -0.58897    4.8483     8.5401    "sitting"
19-Jun-2024 13:42:10.457    -0.59376    4.8626     8.5497    "sitting"
19-Jun-2024 13:42:10.476    -0.58658    4.8674     8.5377    "sitting"
19-Jun-2024 13:42:10.495    -0.58658    4.8794     8.5377    "sitting"
19-Jun-2024 13:42:10.514    -0.57461    4.8602     8.5593    "sitting"
19-Jun-2024 13:42:10.533    -0.5363     4.8626     8.5712    "sitting"
19-Jun-2024 13:42:10.553    -0.52433    4.853      8.5736    "sitting"
19-Jun-2024 13:42:10.572    -0.5387     4.8507     8.5688    "sitting"
19-Jun-2024 13:42:10.591    -0.52672    4.8578     8.5593    "sitting"
19-Jun-2024 13:42:10.610    -0.55546    4.8554     8.5377    "sitting"
19-Jun-2024 13:42:10.629    -0.58179    4.865      8.5305    "sitting"
19-Jun-2024 13:42:10.648    -0.59616    4.8578     8.588     "sitting"
19-Jun-2024 13:42:10.667    -0.61052    4.8818     8.576     "sitting"
19-Jun-2024 13:42:10.686    -0.60094    4.8914     8.5353    "sitting"
19-Jun-2024 13:42:10.705    -0.5794     4.8626     8.4994    "sitting"
19-Jun-2024 13:42:10.725    -0.56024    4.8435     8.5258    "sitting"
19-Jun-2024 13:42:10.744    -0.52912    4.8219     8.5377    "sitting"
19-Jun-2024 13:42:10.763    -0.55785    4.8291     8.5904    "sitting"
19-Jun-2024 13:42:10.782    -0.56982    4.8578     8.5593    "sitting"
19-Jun-2024 13:42:10.802    -0.56264    4.8794     8.5497    "sitting"
19-Jun-2024 13:42:10.821    -0.57221    4.877      8.5593    "sitting"
19-Jun-2024 13:42:10.840    -0.59376    4.877      8.5281    "sitting"
19-Jun-2024 13:42:10.859    -0.60813    4.8554     8.5162    "sitting"
19-Jun-2024 13:42:10.878    -0.56503    4.8387     8.5377    "sitting"
19-Jun-2024 13:42:10.897    -0.55546    4.8746     8.5449    "sitting"
19-Jun-2024 13:42:10.916    -0.56503    4.8602     8.5353    "sitting"
19-Jun-2024 13:42:10.935    -0.55067    4.865      8.5688    "sitting"
<stro...
```

```matlab
% Assuming allLogs is structured with fields like 'Acceleration', 'Timestamp', etc.
% Extract data for sitting, walking, and running
sitAcceleration = allLogs(allLogs.Activity == "sitting", :);
walkAcceleration = allLogs(allLogs.Activity == "walking", :);
runAcceleration = allLogs(allLogs.Activity == "running", :);

% Define activity labels
sitLabel = 'sitting';
walkLabel = 'walking';
```

```matlab
runLabel = 'running';

% Convert labels to cell array of character vectors
sitLabel = cellstr(repmat(sitLabel, size(sitAcceleration, 1), 1));
walkLabel = cellstr(repmat(walkLabel, size(walkAcceleration, 1), 1));
runLabel = cellstr(repmat(runLabel, size(runAcceleration, 1), 1));

% Assign categorical labels to each subset of data
sitAcceleration.Activity = categ    orical(sitLabel);
walkAcceleration.Activity = categorical(walkLabel);
runAcceleration.Activity = categorical(runLabel);

% Combine all data into one table
allAcceleration = [sitAcceleration; walkAcceleration; runAcceleration];
% Remove 'Timestamp' variable (if it exists)
if ismember('Timestamp', allAcceleration.Properties.VariableNames)
    allAcceleration.Timestamp = [];
end

% Convert timetable to table (if needed)
allAcceleration = timetable2table(allAcceleration, "ConvertRowTimes", false);
% Now the data is ready to be used for training
disp("Data preparation complete.");
```

```
Data preparation complete.
```

```matlab
disp("Size of allAcceleration table:");
```

```
Size of allAcceleration table:
```

```matlab
disp(size(allAcceleration));
```

```
      7037             4
```

2. Train a model

One way to train several different machine learning algorithms at once is to use the Classification Learner App, which allows you to rapidly prototype and fine tune your models until you have one you are happy with. You have a lot of options on how to use your data and train models in this app, so while this will be a basic workflow, you can learn more about the different options using this documentation.

First, open the app:

```matlab
classificationLearner;
```

Start a "New Session" and select "From Workspace". In the window that opens, select allAcceleration as the 'Data Set Variable', then start the session.
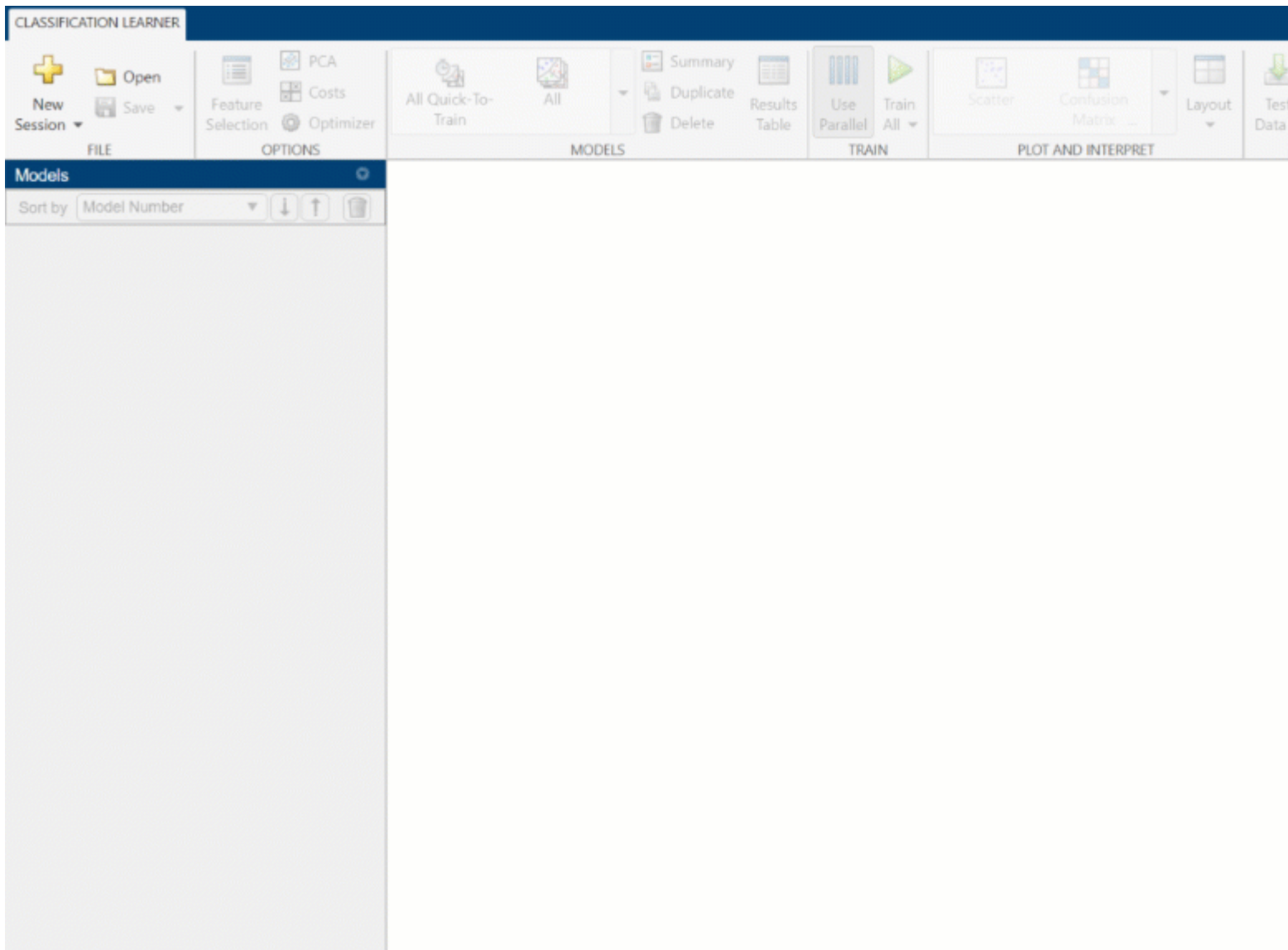
From the 'Models' section of the toolstrip, select 'All Quick-To-Train'. This will add a model labeled 'Multiple' to the 'Models' tab. Then delete the model labeled 'Tree'.
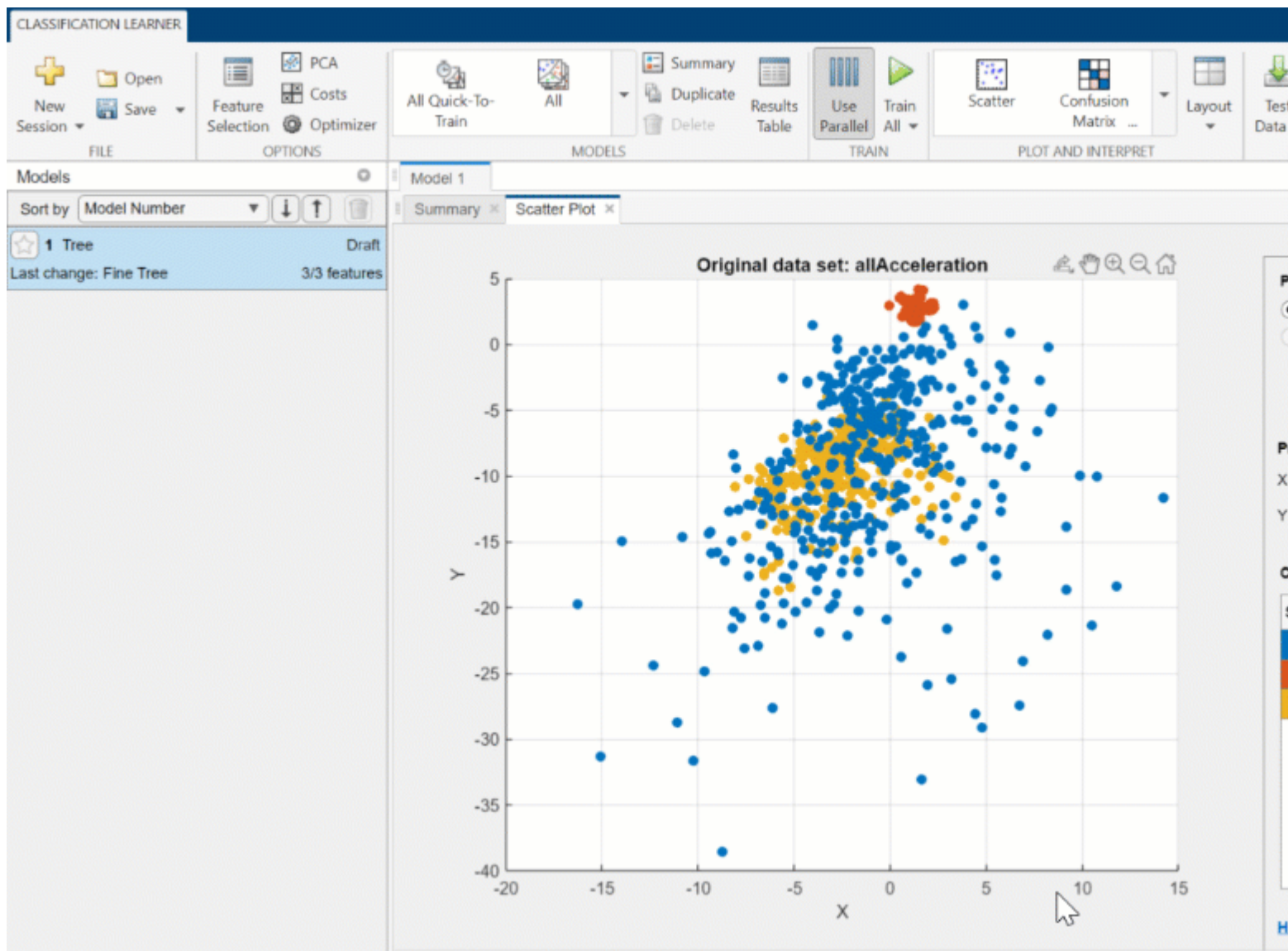
Click 'Train All', which will start training several models. Once the training has finished, each model will have an 'RMSE (Validation)' value. This represents the *root mean squared error* of that model when used on a subset of the training data. The lower the RMSE, the better the model performed. Select the model with the lowest RMSE, then export the model to the workplace.
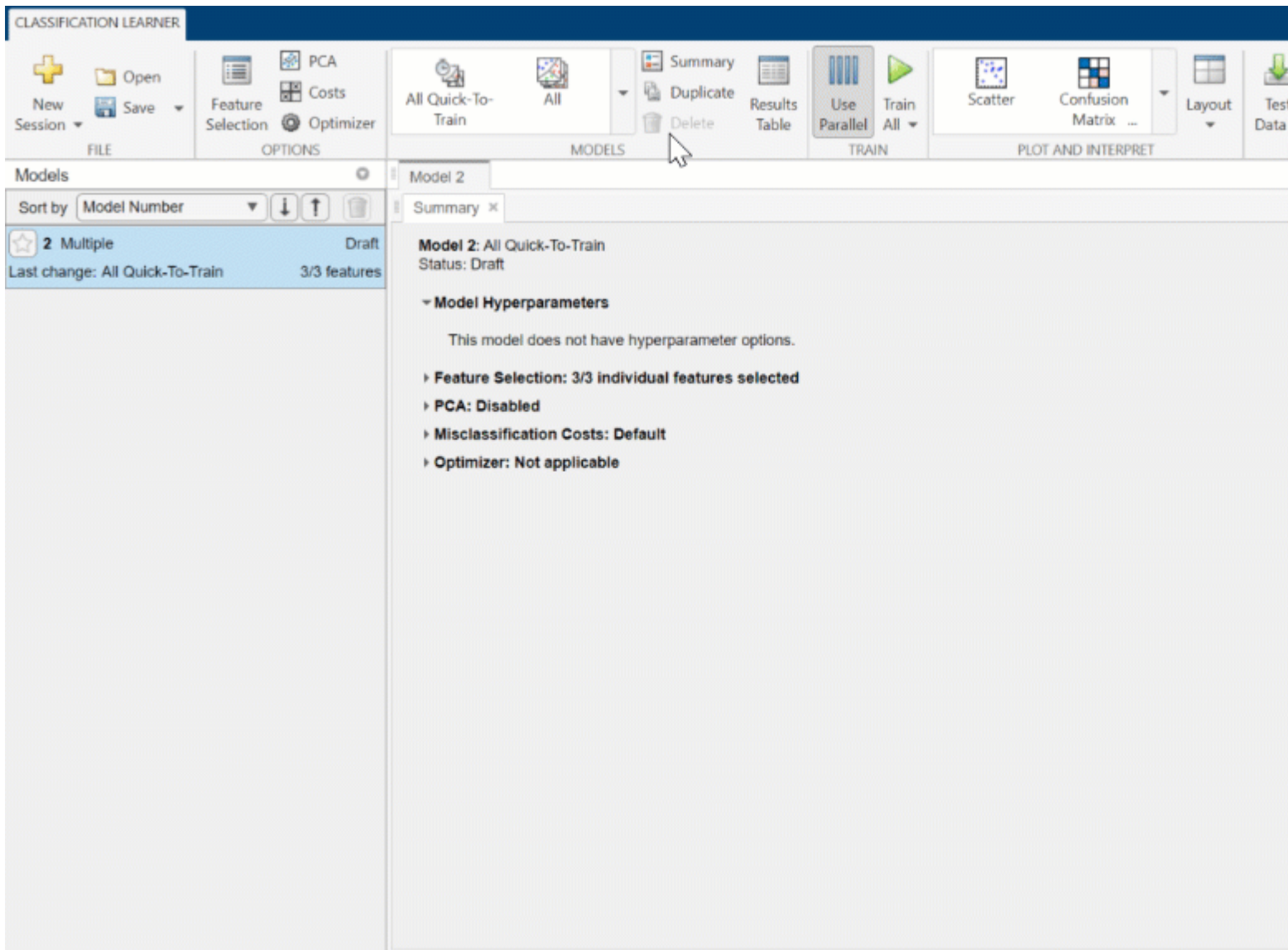
3. Use the model

Now we can use that model to make predictions on new data! 'Data.mata' is a log of Acceleration, Position data collected during a sample workout that included walking, running, and sitting, so we can use our machine learning model to predict what activity the person was doing for each timestamp.

```matlab
% Load the test data
data = load("Data.mat");

% Display the contents of the loaded data
%disp(data);

% Extract the acceleration data from the test data
testAcceleration = data.Acceleration;
disp(testAcceleration)
```

Timestamp	X	Y	Z

19-Jun-2024 12:26:19.667	0.77895	1.341	10.883
19-Jun-2024 12:26:19.717	0.501	1.247	9.5831
19-Jun-2024 12:26:19.767	0.92505	1.219	10.11
19-Jun-2024 12:26:19.817	0.561	1.0871	9.839
19-Jun-2024 12:26:19.867	0.75495	1.113	9.7271
19-Jun-2024 12:26:19.917	0.82905	1.185	9.6
19-Jun-2024 12:26:19.967	0.849	1.226	9.511
19-Jun-2024 12:26:20.017	0.612	1.049	10.411
19-Jun-2024 12:26:20.067	0.79395	1.367	9.4991
19-Jun-2024 12:26:20.117	0.88695	1.4269	10.105
19-Jun-2024 12:26:20.167	0.79605	1.429	9.861
19-Jun-2024 12:26:20.217	1.16	1.607	9.5741
19-Jun-2024 12:26:20.267	0.96405	1.417	9.696
19-Jun-2024 12:26:20.317	1.0759	1.386	9.947
19-Jun-2024 12:26:20.367	0.97095	1.441	9.387
19-Jun-2024 12:26:20.417	0.82695	1.4749	10.04
19-Jun-2024 12:26:20.467	0.94695	1.489	9.866
19-Jun-2024 12:26:20.517	1.196	1.657	9.686
19-Jun-2024 12:26:20.567	0.86505	1.353	10.079
19-Jun-2024 12:26:20.616	1.16	1.681	9.461
19-Jun-2024 12:26:20.667	1.344	1.908	9.2291
19-Jun-2024 12:26:20.717	1.349	1.7891	9.1781
19-Jun-2024 12:26:20.767	1.687	1.798	9.54
19-Jun-2024 12:26:20.817	1.44	1.657	9.114
19-Jun-2024 12:26:20.867	1.277	1.166	9.377
19-Jun-2024 12:26:20.917	1.191	1.19	10.615
19-Jun-2024 12:26:20.967	0.92295	1.109	10.304
19-Jun-2024 12:26:21.017	0.504	0.85005	9.693
19-Jun-2024 12:26:21.067	1.0571	1.032	9.935
19-Jun-2024 12:26:21.117	1.031	1.125	10.725
19-Jun-2024 12:26:21.167	1.4329	1.736	9.116
19-Jun-2024 12:26:21.217	0.90105	1.4959	8.968
19-Jun-2024 12:26:21.267	0.729	1.257	9.552
19-Jun-2024 12:26:21.317	0.79395	1.1449	10.17
19-Jun-2024 12:26:21.367	0.801	1.3031	9.801
19-Jun-2024 12:26:21.417	0.789	1.484	9.42
19-Jun-2024 12:26:21.467	0.36495	1.348	10.287
19-Jun-2024 12:26:21.517	0.59505	1.8821	8.862
19-Jun-2024 12:26:21.567	0.813	2.4971	7.991
19-Jun-2024 12:26:21.617	0.36495	2.258	7.9601
19-Jun-2024 12:26:21.667	0.46095	2.04	7.61
19-Jun-2024 12:26:21.717	1.2221	1.8439	8.4079
19-Jun-2024 12:26:21.767	0.04905	1.422	7.8311
19-Jun-2024 12:26:21.817	0.10395	1.331	9.815
19-Jun-2024 12:26:21.867	1.83	0.89805	10.909
19-Jun-2024 12:26:21.917	1.239	1.2619	10.32
19-Jun-2024 12:26:21.967	0.29595	0.90495	10.024
19-Jun-2024 12:26:22.017	0.88005	0.64395	12.777
19-Jun-2024 12:26:22.067	0.07005	0.86205	12.954
19-Jun-2024 12:26:22.117	0.348	0.37395	12.312
19-Jun-2024 12:26:22.167	0.47505	0.50295	10.117
19-Jun-2024 12:26:22.217	-0.98205	0.273	10.833
19-Jun-2024 12:26:22.267	-1.449	0.68205	8.8819
19-Jun-2024 12:26:22.317	-1.372	0.642	8.6951
19-Jun-2024 12:26:22.367	-1.135	0.65805	9.1781
19-Jun-2024 12:26:22.417	0.29595	0.43095	11.623
19-Jun-2024 12:26:22.467	0.67395	0.50805	10.117
19-Jun-2024 12:26:22.517	1.299	1.207	9.19
19-Jun-2024 12:26:22.567	1.014	1.602	8.388
19-Jun-2024 12:26:22.617	0.55905	1.233	9.8921
19-Jun-2024 12:26:22.667	0.01995	1.343	9.708
19-Jun-2024 12:26:22.717	-0.29505	1.2671	9.882
19-Jun-2024 12:26:22.767	-0.228	1.3459	10.507

```
19-Jun-2024 12:26:22.817    -0.357      0.85995     10.701
19-Jun-2024 12:26:22.867    -0.09405    0.54405     10.105
19-Jun-2024 12:26:22.917     0.01995    0.48405     10.052
19-Jun-2024 12:26:22.967     0.219      0.81195      9.65
19-Jun-2024 12:26:23.017     0.44895    1.1681       9.6881
19-Jun-2024 12:26:23.067     0.45795    1.461        9.1691
19-Jun-2024 12:26:23.117    -0.17805    0.98895     10.32
19-Jun-2024 12:26:23.167    -0.02205    0.96705      9.866
19-Jun-2024 12:26:23.217    -0.23295    0.73995     10.361
19-Jun-2024 12:26:23.267     0.01305    0.975       10.275
19-Jun-2024 12:26:23.317     0.102      0.831       10.299
19-Jun-2024 12:26:23.367     0.228      0.82095      9.6761
19-Jun-2024 12:26:23.417     0.348      0.70605      9.5951
19-Jun-2024 12:26:23.467     0.396      0.75405      9.808
19-Jun-2024 12:26:23.517     0.41295    0.951       10.064
19-Jun-2024 12:26:23.567     0.315      1.0511       9.894
19-Jun-2024 12:26:23.617     0.30495    1.044        9.9611
19-Jun-2024 12:26:23.667     0.19005    0.88605      9.8629
19-Jun-2024 12:26:23.717    -0.192      0.606       10.435
19-Jun-2024 12:26:23.767    -0.40305    0.79305      9.0761
19-Jun-2024 12:26:23.817    -0.087      0.73995     10.596
19-Jun-2024 12:26:23.867    -0.309      0.771       10.127
19-Jun-2024 12:26:23.917    -0.345      0.89805      9.849
19-Jun-2024 12:26:23.967    -0.24       0.972        9.72
19-Jun-2024 12:26:24.017    -0.26595    0.99795     10.036
19-Jun-2024 12:26:24.067    -0.37605    1.4389       9.5621
19-Jun-2024 12:26:24.117    -0.453      1.326       10.112
19-Jun-2024 12:26:24.167    -0.855      1.245       10.162
19-Jun-2024 12:26:24.217    -1.2791     0.85005      9.487
19-Jun-2024 12:26:24.267    -0.975      0.76095      9.506
19-Jun-2024 12:26:24.317    -1.001      0.816        9.408
19-Jun-2024 12:26:24.367    -1.128      0.771       10.32
19-Jun-2024 12:26:24.417    -1.1929     0.867        9.619
19-Jun-2024 12:26:24.467    -1.2619     1.1329       9.6431
19-Jun-2024 12:26:24.517    -1.13       1.171       10.763
19-Jun-2024 12:26:24.567    -1.13       0.90705     10.579
19-Jun-2024 12:26:24.617    -0.49095    0.98895     10.043
19-Jun-2024 12:26:24.667    -0.74505    1.049        9.4751
19-Jun-2024 12:26:24.717    -0.132      0.99795      9.753
19-Jun-2024 12:26:24.767     0.56805    1.221       10.007
19-Jun-2024 12:26:24.817     0.669      1.3961      10.268
19-Jun-2024 12:26:24.867     0.384      1.664        9.001
19-Jun-2024 12:26:24.917    -0.204      1.4441       9.437
19-Jun-2024 12:26:24.967    -0.67095    1.101       10.012
19-Jun-2024 12:26:25.017    -0.43605    1.0991      10.131
19-Jun-2024 12:26:25.067    -0.156      1.413        9.7151
19-Jun-2024 12:26:25.117     0.504      1.571        9.54
19-Jun-2024 12:26:25.167    -0.30195    1.142        9.9251
19-Jun-2024 12:26:25.217    -0.71895    0.867       10.129
19-Jun-2024 12:26:25.267    -0.336      1.271        8.379
19-Jun-2024 12:26:25.317    -1.3459     0.86205      9.2981
19-Jun-2024 12:26:25.367    -1.545      0.82605      9.581
19-Jun-2024 12:26:25.417    -0.46005    1.499       10.297
19-Jun-2024 12:26:25.467    -1.719      0.477       11.427
19-Jun-2024 12:26:25.517    -1.53       0.38595     10.191
19-Jun-2024 12:26:25.567    -0.52905    0.55095     10.069
19-Jun-2024 12:26:25.617    -0.12495    0.69705     10.139
19-Jun-2024 12:26:25.667     0.22605    1.226        9.7241
19-Jun-2024 12:26:25.717    -0.16305    1.128        9.837
19-Jun-2024 12:26:25.767    -0.33105    1.0871       9.899
19-Jun-2024 12:26:25.817    -0.28005    1.243        9.509
19-Jun-2024 12:26:25.867    -0.31905    1.226        9.8059
19-Jun-2024 12:26:25.917    -0.67605    1.0459      10.421
19-Jun-2024 12:26:25.967    -0.73995    1.044        9.93
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19-Jun-2024 12:26:26.067	-0.714	1.159	9.5209
19-Jun-2024 12:26:26.117	-0.60105	1.231	9.842
19-Jun-2024 12:26:26.167	-0.24	1.389	9.447
19-Jun-2024 12:26:26.217	-0.489	1.2281	9.5381
19-Jun-2024 12:26:26.267	-1.209	0.927	9.9131
19-Jun-2024 12:26:26.317	-1.03	0.99795	9.693
19-Jun-2024 12:26:26.367	-0.276	1.4749	9.032
19-Jun-2024 12:26:26.417	-0.381	1.453	10.129
19-Jun-2024 12:26:26.467	-0.132	1.64	9.803
19-Jun-2024 12:26:26.517	0.183	1.662	9.9919
19-Jun-2024 12:26:26.567	0.04395	1.554	9.9371
19-Jun-2024 12:26:26.617	-0.06	1.2349	10.165
19-Jun-2024 12:26:26.667	0.02295	1.4321	9.669
19-Jun-2024 12:26:26.717	-0.10305	1.389	9.4751
19-Jun-2024 12:26:26.767	-0.003	1.628	10.172
19-Jun-2024 12:26:26.817	0.207	1.8889	9.696
19-Jun-2024 12:26:26.867	0.147	1.707	10.076
19-Jun-2024 12:26:26.917	0.13995	1.611	9.42
19-Jun-2024 12:26:26.967	-0.18705	1.1681	10.1
19-Jun-2024 12:26:27.017	-0.00495	1.3	9.147
19-Jun-2024 12:26:27.067	0.23595	1.255	10.206
19-Jun-2024 12:26:27.117	0.063	1.2791	9.801
19-Jun-2024 12:26:27.167	0.09	1.566	9.2741
19-Jun-2024 12:26:27.217	0.34305	1.307	10.706
19-Jun-2024 12:26:27.267	0.339	1.5679	9.985
19-Jun-2024 12:26:27.317	0.171	1.329	10.002
19-Jun-2024 12:26:27.367	-0.015	1.176	9.777
19-Jun-2024 12:26:27.417	-0.03105	1.2161	9.844
19-Jun-2024 12:26:27.467	0.12795	1.37	10.167
19-Jun-2024 12:26:27.517	0.14505	1.652	10.174
19-Jun-2024 12:26:27.567	0.252	1.7329	9.878
19-Jun-2024 12:26:27.617	0.20505	1.501	9.5299
19-Jun-2024 12:26:27.667	0.58005	1.5319	9.6431
19-Jun-2024 12:26:27.717	0.36705	1.3789	9.614
19-Jun-2024 12:26:27.767	0.22395	1.35	10.172
19-Jun-2024 12:26:27.817	0.22095	1.4441	10.256
19-Jun-2024 12:26:27.867	0.054	1.5919	10.079
19-Jun-2024 12:26:27.917	0.58305	1.8199	10.119
19-Jun-2024 12:26:27.967	0.62595	1.705	9.231
19-Jun-2024 12:26:28.017	0.291	1.202	9.035
19-Jun-2024 12:26:28.067	-0.19905	0.94605	9.478
19-Jun-2024 12:26:28.117	-0.67605	0.984	9.717
19-Jun-2024 12:26:28.167	-0.19905	1.245	10.342
19-Jun-2024 12:26:28.217	0.17805	1.559	10.234
19-Jun-2024 12:26:28.267	0.26895	1.494	9.921
19-Jun-2024 12:26:28.317	0.24	1.264	9.7241
19-Jun-2024 12:26:28.367	0.35805	1.166	9.5501
19-Jun-2024 12:26:28.417	0.291	1.305	9.511
19-Jun-2024 12:26:28.467	0.339	1.207	9.9589
19-Jun-2024 12:26:28.517	0.14205	1.283	9.5381
19-Jun-2024 12:26:28.567	0.45795	1.4149	9.99
19-Jun-2024 12:26:28.617	0.516	1.317	9.5419
19-Jun-2024 12:26:28.667	0.04395	1.068	9.564
19-Jun-2024 12:26:28.717	-0.22095	0.867	10.682
19-Jun-2024 12:26:28.767	0.11595	1.0511	10.273
19-Jun-2024 12:26:28.817	0.66195	1.178	9.234
19-Jun-2024 12:26:28.867	0.46995	1.305	9.3581
19-Jun-2024 12:26:28.917	0.79095	1.224	9.906
19-Jun-2024 12:26:28.967	0.61905	1.097	9.751
19-Jun-2024 12:26:29.017	0.45795	0.90495	9.777
19-Jun-2024 12:26:29.067	0.49905	0.88395	10.05
19-Jun-2024 12:26:29.117	0.60705	0.93405	10.131
19-Jun-2024 12:26:29.167	0.705	1.1329	9.8179

19-Jun-2024 12:26:29.217	0.48705	1.0391	9.796
19-Jun-2024 12:26:29.267	0.489	0.984	9.717
19-Jun-2024 12:26:29.317	0.54	0.996	9.669
19-Jun-2024 12:26:29.367	0.52305	0.96495	9.763
19-Jun-2024 12:26:29.417	0.66405	1.042	10.423
19-Jun-2024 12:26:29.467	0.588	1.085	10.098
19-Jun-2024 12:26:29.517	0.015	0.83595	8.996
19-Jun-2024 12:26:29.567	0.28095	0.75705	9.765
19-Jun-2024 12:26:29.617	0.387	0.735	9.602
19-Jun-2024 12:26:29.667	0.228	0.747	10.476
19-Jun-2024 12:26:29.717	0.02505	0.723	10.06
19-Jun-2024 12:26:29.767	0.03195	0.99405	9.315
19-Jun-2024 12:26:29.817	0.087	1.0391	9.523
19-Jun-2024 12:26:29.867	0.375	1.113	10.002
19-Jun-2024 12:26:29.917	0.54	1.1681	9.751
19-Jun-2024 12:26:29.967	0.46605	0.93105	9.581
19-Jun-2024 12:26:30.017	0.24	0.627	9.6289
19-Jun-2024 12:26:30.067	0.114	0.381	10.158
19-Jun-2024 12:26:30.117	0.30705	0.58905	9.396
19-Jun-2024 12:26:30.167	0.21705	0.56295	10.069
19-Jun-2024 12:26:30.217	0.30705	0.63	9.858
19-Jun-2024 12:26:30.267	0.33405	0.77805	9.8201
19-Jun-2024 12:26:30.317	0.39105	0.807	9.856
19-Jun-2024 12:26:30.367	0.492	0.87405	10.069
19-Jun-2024 12:26:30.417	0.43905	0.74505	10.095
19-Jun-2024 12:26:30.467	0.26895	0.75705	9.765
19-Jun-2024 12:26:30.517	0.30495	0.69195	10.251
19-Jun-2024 12:26:30.567	0.29295	0.77295	9.7361
19-Jun-2024 12:26:30.617	0.387	0.67995	9.897
19-Jun-2024 12:26:30.667	0.17595	0.78795	9.459
19-Jun-2024 12:26:30.717	0.47505	0.96705	10.818
19-Jun-2024 12:26:30.767	0.255	0.735	11.005
19-Jun-2024 12:26:30.817	0.30705	0.534	10.203
19-Jun-2024 12:26:30.867	0.10905	0.86205	8.829
19-Jun-2024 12:26:30.917	-0.46695	1.049	8.853
19-Jun-2024 12:26:30.967	0.05595	1.528	9.8629
19-Jun-2024 12:26:31.017	-0.24195	1.587	8.9921
19-Jun-2024 12:26:31.067	-0.66105	1.128	10.17
19-Jun-2024 12:26:31.117	-0.47895	1.161	9.77
19-Jun-2024 12:26:31.167	0.02295	1.4201	9.612
19-Jun-2024 12:26:31.217	0.159	1.4389	10.038
19-Jun-2024 12:26:31.267	0.12795	1.5319	9.569
19-Jun-2024 12:26:31.317	-0.06	1.41	9.791
19-Jun-2024 12:26:31.367	-0.29505	1.1209	9.554
19-Jun-2024 12:26:31.417	-0.024	1.173	9.911
19-Jun-2024 12:26:31.467	-0.237	1.137	9.734
19-Jun-2024 12:26:31.517	0.10395	1.348	9.696
19-Jun-2024 12:26:31.567	0.08205	1.1801	9.8509
19-Jun-2024 12:26:31.617	0.279	1.2	10.366
19-Jun-2024 12:26:31.667	0.61395	1.4629	9.123
19-Jun-2024 12:26:31.717	0.20205	1.176	10.045
19-Jun-2024 12:26:31.767	0.195	1.4389	9.2291
19-Jun-2024 12:26:31.817	-0.039	1.212	9.935
19-Jun-2024 12:26:31.867	0.35505	1.14	10.414
19-Jun-2024 12:26:31.917	-0.01695	1.173	9.799
19-Jun-2024 12:26:31.967	0.39105	1.437	9.803
19-Jun-2024 12:26:32.017	-0.18195	1.025	10.385
19-Jun-2024 12:26:32.067	-1.1111	1.1801	9.102
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19-Jun-2024 12:26:32.167	0.255	1.575	9.351
19-Jun-2024 12:26:32.217	0.138	1.614	9.4391
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19-Jun-2024 12:26:32.317	0.576	1.226	10.89
19-Jun-2024 12:26:32.367	0.99195	1.2401	9.518

19-Jun-2024 12:26:32.417	0.822	1.312	8.757
19-Jun-2024 12:26:32.467	1.09	1.312	9.8179
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19-Jun-2024 12:26:32.567	0.41805	1.173	9.997
19-Jun-2024 12:26:32.617	0.16395	1.341	9.834
19-Jun-2024 12:26:32.667	0.573	1.5611	10.373
19-Jun-2024 12:26:32.717	0.03195	1.161	9.811
19-Jun-2024 12:26:32.767	0.291	1.2349	9.664
19-Jun-2024 12:26:32.817	0.99	1.5611	9.7751
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19-Jun-2024 12:26:32.917	1.2679	1.367	9.93
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19-Jun-2024 12:26:33.217	0.68295	1.1921	9.7099
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19-Jun-2024 12:26:33.367	0.41805	1.1059	9.873
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19-Jun-2024 12:26:33.617	0.549	1.137	9.8801
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19-Jun-2024 12:26:33.867	1.2049	1.372	9.882
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19-Jun-2024 12:26:33.967	-0.19395	0.78105	9.842
19-Jun-2024 12:26:34.017	0.25995	1.03	9.755
19-Jun-2024 12:26:34.067	0.16395	0.98595	9.8629
19-Jun-2024 12:26:34.117	0.348	0.99405	9.935
19-Jun-2024 12:26:34.167	0.55605	0.94305	10.241
19-Jun-2024 12:26:34.217	0.492	0.78795	9.9919
19-Jun-2024 12:26:34.267	0.47505	0.70605	9.8509
19-Jun-2024 12:26:34.317	0.231	0.714	9.686
19-Jun-2024 12:26:34.367	0.13995	0.78105	9.593
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19-Jun-2024 12:26:34.467	0.219	0.876	10.198
19-Jun-2024 12:26:34.517	0.37905	1.044	10.088
19-Jun-2024 12:26:34.567	0.573	1.1179	9.856
19-Jun-2024 12:26:34.617	0.492	0.96	9.763
19-Jun-2024 12:26:34.667	0.52095	0.951	9.669
19-Jun-2024 12:26:34.717	0.50895	0.84	9.945
19-Jun-2024 12:26:34.767	0.55905	0.95805	9.698
19-Jun-2024 12:26:34.817	0.48705	0.99105	10.071
19-Jun-2024 12:26:34.867	0.477	0.99105	9.99
19-Jun-2024 12:26:34.917	0.46305	0.996	9.8179
19-Jun-2024 12:26:34.967	0.40605	0.92895	9.743
19-Jun-2024 12:26:35.017	0.73605	1.003	9.9371
19-Jun-2024 12:26:35.067	0.50895	1.0061	10.093
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19-Jun-2024 12:26:35.167	0.28095	0.819	10.031
19-Jun-2024 12:26:35.217	0.55605	1.037	9.5591
19-Jun-2024 12:26:35.267	0.47505	0.99405	10.074
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19-Jun-2024 12:26:35.367	0.46095	0.912	9.966
19-Jun-2024 12:26:35.417	0.477	0.97695	9.83
19-Jun-2024 12:26:35.467	0.513	0.963	9.988
19-Jun-2024 12:26:35.517	0.46095	0.98895	9.698
19-Jun-2024 12:26:35.567	0.38895	0.87195	9.878

19-Jun-2024 12:26:35.617	0.43695	0.924	9.99
19-Jun-2024 12:26:35.667	0.492	0.90705	9.966
19-Jun-2024 12:26:35.717	0.47505	0.94305	9.822
19-Jun-2024 12:26:35.767	0.51795	0.915	9.966
19-Jun-2024 12:26:35.817	0.408	0.89295	9.794
19-Jun-2024 12:26:35.867	0.29295	0.795	10.055
19-Jun-2024 12:26:35.917	0.432	0.81405	9.789
19-Jun-2024 12:26:35.967	0.48	0.951	9.779
19-Jun-2024 12:26:36.017	0.46995	0.915	10.05
19-Jun-2024 12:26:36.067	0.44205	0.927	9.99
19-Jun-2024 12:26:36.117	0.477	0.98595	10.055
19-Jun-2024 12:26:36.167	0.60195	1.1209	9.696
19-Jun-2024 12:26:36.217	0.52305	0.95805	9.849
19-Jun-2024 12:26:36.267	0.525	0.903	9.5329
19-Jun-2024 12:26:36.317	0.339	0.83805	10.208
19-Jun-2024 12:26:36.367	0.324	0.91905	9.902
19-Jun-2024 12:26:36.417	0.19695	0.94305	9.696
19-Jun-2024 12:26:36.467	0.40605	1.0339	10.019
19-Jun-2024 12:26:36.517	0.228	0.852	9.7601
19-Jun-2024 12:26:36.567	0.444	0.95295	9.7241
19-Jun-2024 12:26:36.617	0.564	0.948	10.062
19-Jun-2024 12:26:36.667	0.40305	1.065	9.897
19-Jun-2024 12:26:36.717	0.408	1.008	10.062
19-Jun-2024 12:26:36.767	0.30495	0.975	9.801
19-Jun-2024 12:26:36.817	0.31695	0.86895	9.971
19-Jun-2024 12:26:36.867	0.513	1.054	9.923
19-Jun-2024 12:26:36.917	0.40095	0.97695	9.8801
19-Jun-2024 12:26:36.967	0.384	0.94095	9.945
19-Jun-2024 12:26:37.017	0.375	0.82605	9.9641
19-Jun-2024 12:26:37.067	0.48	0.93105	9.7151
19-Jun-2024 12:26:37.117	0.396	0.99405	9.7721
19-Jun-2024 12:26:37.167	0.40305	0.95805	10.17
19-Jun-2024 12:26:37.217	0.33405	0.951	9.8629
19-Jun-2024 12:26:37.267	0.288	0.888	9.7751
19-Jun-2024 12:26:37.317	0.44895	0.93405	9.971
19-Jun-2024 12:26:37.367	0.49695	1.0061	9.8321
19-Jun-2024 12:26:37.417	0.54195	1.0271	9.842
19-Jun-2024 12:26:37.467	0.45795	0.9	9.9281
19-Jun-2024 12:26:37.517	0.48495	0.89595	9.899
19-Jun-2024 12:26:37.567	0.44205	0.91905	9.9731
19-Jun-2024 12:26:37.617	0.39795	0.972	9.983
19-Jun-2024 12:26:37.667	0.40305	0.95505	9.9281
19-Jun-2024 12:26:37.717	0.279	0.912	9.87
19-Jun-2024 12:26:37.767	0.47295	1.037	9.576
19-Jun-2024 12:26:37.817	0.64305	1.128	9.808
19-Jun-2024 12:26:37.867	0.52095	1.0511	9.9641
19-Jun-2024 12:26:37.917	0.21195	0.99795	9.837
19-Jun-2024 12:26:37.967	0.16905	0.89595	10.196
19-Jun-2024 12:26:38.017	0.444	1.0579	9.6289
19-Jun-2024 12:26:38.067	0.64695	1.2041	10.038
19-Jun-2024 12:26:38.117	0.762	1.341	9.8059
19-Jun-2024 12:26:38.167	0.36705	1.171	9.6431
19-Jun-2024 12:26:38.217	0.15405	0.91005	10.045
19-Jun-2024 12:26:38.267	0.25995	1.0699	9.777
19-Jun-2024 12:26:38.317	0.50595	1.1921	10.069
19-Jun-2024 12:26:38.367	0.65505	1.247	9.5419
19-Jun-2024 12:26:38.417	0.549	1.077	9.8629
19-Jun-2024 12:26:38.467	0.525	1.0579	9.72
19-Jun-2024 12:26:38.517	0.29295	0.99405	9.753
19-Jun-2024 12:26:38.567	0.43695	1.1059	10.23
19-Jun-2024 12:26:38.617	0.35805	1.159	9.942
19-Jun-2024 12:26:38.667	0.432	1.109	10.143
19-Jun-2024 12:26:38.717	0.04695	1.049	9.7871
19-Jun-2024 12:26:38.767	0.16395	1.1111	9.839

19-Jun-2024 12:26:38.817	0.42	1.3219	9.277
19-Jun-2024 12:26:38.867	0.41295	1.0391	10.452
19-Jun-2024 12:26:38.917	0.219	1.305	9.734
19-Jun-2024 12:26:38.967	-0.04305	1.025	9.7751
19-Jun-2024 12:26:39.017	0.13995	1.154	9.923
19-Jun-2024 12:26:39.067	0.12105	1.149	9.844
19-Jun-2024 12:26:39.117	0.15705	1.176	10.04
19-Jun-2024 12:26:39.167	0.26895	1.2499	9.5419
19-Jun-2024 12:26:39.217	0.14505	1.1449	9.767
19-Jun-2024 12:26:39.267	0.51105	1.135	10.198
19-Jun-2024 12:26:39.317	0.63105	1.336	9.7721
19-Jun-2024 12:26:39.367	0.516	1.37	9.717
19-Jun-2024 12:26:39.417	0.552	1.3031	9.969
19-Jun-2024 12:26:39.467	0.34095	1.255	9.9919
19-Jun-2024 12:26:39.517	0.40095	1.331	9.755
19-Jun-2024 12:26:39.567	0.58005	1.3031	9.432
19-Jun-2024 12:26:39.617	0.62595	1.3579	10.359
19-Jun-2024 12:26:39.667	0.66705	1.283	10.567
19-Jun-2024 12:26:39.717	-0.01005	1.0631	10.091
19-Jun-2024 12:26:39.767	0.114	1.3841	8.898
19-Jun-2024 12:26:39.817	0.31905	1.389	9.193
19-Jun-2024 12:26:39.867	0.36705	1.35	9.5351
19-Jun-2024 12:26:39.917	0.492	1.336	10.146
19-Jun-2024 12:26:39.967	0.33105	1.314	9.966
19-Jun-2024 12:26:40.017	0.34605	1.2739	10.124
19-Jun-2024 12:26:40.067	0.324	1.2911	9.7391
19-Jun-2024 12:26:40.117	0.62805	1.343	9.614
19-Jun-2024 12:26:40.167	0.73395	1.4509	9.794
19-Jun-2024 12:26:40.217	0.588	1.317	9.8179
19-Jun-2024 12:26:40.267	0.504	1.314	9.5471
19-Jun-2024 12:26:40.317	0.42495	1.3841	10.191
19-Jun-2024 12:26:40.367	0.444	1.405	10.107
19-Jun-2024 12:26:40.417	0.39405	1.343	9.846
19-Jun-2024 12:26:40.467	0.32895	1.293	9.444
19-Jun-2024 12:26:40.517	0.55905	1.348	9.614
19-Jun-2024 12:26:40.567	0.327	1.2349	9.77
19-Jun-2024 12:26:40.617	0.31905	1.221	9.952
19-Jun-2024 12:26:40.667	0.39405	1.305	9.902
19-Jun-2024 12:26:40.717	0.29805	1.3339	9.8681
19-Jun-2024 12:26:40.767	0.37695	1.4201	9.894
19-Jun-2024 12:26:40.817	0.21405	1.269	10.048
19-Jun-2024 12:26:40.867	0.135	1.221	9.504
19-Jun-2024 12:26:40.917	0.39795	1.324	9.686
19-Jun-2024 12:26:40.967	0.564	1.377	9.878
19-Jun-2024 12:26:41.017	0.36495	1.281	10.026
19-Jun-2024 12:26:41.067	0.279	1.19	9.8921
19-Jun-2024 12:26:41.117	0.25695	1.202	9.813
19-Jun-2024 12:26:41.167	0.37695	1.224	9.878
19-Jun-2024 12:26:41.217	0.49695	1.348	9.655
19-Jun-2024 12:26:41.267	0.40095	1.3579	10.038
19-Jun-2024 12:26:41.317	0.49395	1.37	9.576
19-Jun-2024 12:26:41.367	0.36705	1.305	9.796
19-Jun-2024 12:26:41.417	0.43005	1.319	9.911
19-Jun-2024 12:26:41.467	0.22395	1.161	9.899
19-Jun-2024 12:26:41.517	0.29595	1.264	9.799
19-Jun-2024 12:26:41.567	0.38205	1.37	9.911
19-Jun-2024 12:26:41.617	0.35295	1.37	9.887
19-Jun-2024 12:26:41.667	0.597	1.4681	9.6289
19-Jun-2024 12:26:41.717	0.23595	1.207	9.9131
19-Jun-2024 12:26:41.767	0.41805	1.2521	9.667
19-Jun-2024 12:26:41.817	0.243	1.171	10.036
19-Jun-2024 12:26:41.867	0.40605	1.312	9.65
19-Jun-2024 12:26:41.917	0.53505	1.3	10.079
19-Jun-2024 12:26:41.967	0.47295	1.3339	9.822

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19-Jun-2024 12:26:42.017    0.39795    1.233     9.861
19-Jun-2024 12:26:42.067    0.09705    1.245     9.7751
19-Jun-2024 12:26:42.117    0.111      1.207     9.8921
19-Jun-2024 12:26:42.167    0.276      1.312     9.894
19-Jun-2024 12:26:42.217    0.444      1.394     9.9281
19-Jun-2024 12:26:42.267    0.351      1.317     9.7721
19-Jun-2024 12:26:42.317    0.387      1.269     9.698
19-Jun-2024 12:26:42.367    0.25995    1.245     9.799
19-Jun-2024 12:26:42.417    0.43005    1.3789    9.8179
19-Jun-2024 12:26:42.467    0.31695    1.2859    10.004
19-Jun-2024 12:26:42.517    0.276      1.312     9.7361
19-Jun-2024 12:26:42.567    0.267      1.288     9.9949
19-Jun-2024 12:26:42.617    0.27195    1.329     9.66
19-Jun-2024 12:26:42.667    0.27405    1.3219    9.72
19-Jun-2024 12:26:42.717    0.315      1.329     9.89
19-Jun-2024 12:26:42.767    0.336      1.372     9.779
19-Jun-2024 12:26:42.817    0.3        1.3219    9.861
19-Jun-2024 12:26:42.867    0.372      1.377     9.753
19-Jun-2024 12:26:42.917    0.22605    1.259     10.007
19-Jun-2024 12:26:42.967    0.31695    1.326     9.7841
19-Jun-2024 12:26:43.017    0.22395    1.271     9.734
19-Jun-2024 12:26:43.067    0.35295    1.348     9.9041
19-Jun-2024 12:26:43.117    0.37905    1.434     9.7361
19-Jun-2024 12:26:43.167    0.22095    1.3579    10.206
19-Jun-2024 12:26:43.217    0.336      1.338     9.648
19-Jun-2024 12:26:43.267    0.29805    1.319     9.801
19-Jun-2024 12:26:43.317    0.264      1.355     9.8509
19-Jun-2024 12:26:43.367    0.372      1.41      9.712
19-Jun-2024 12:26:43.417    0.255      1.365     9.7871
19-Jun-2024 12:26:43.467    0.33405    1.3909    9.7241
19-Jun-2024 12:26:43.517    0.183      1.353     10.06
19-Jun-2024 12:26:43.567    0.28605    1.377     9.9761
19-Jun-2024 12:26:43.617    0.075      1.317     9.669
19-Jun-2024 12:26:43.667    0.37905    1.41      9.696
19-Jun-2024 12:26:43.717    0.28395    1.425     9.878
19-Jun-2024 12:26:43.767    0.41505    1.484     9.83
19-Jun-2024 12:26:43.817    0.10605    1.353     9.957
19-Jun-2024 12:26:43.867    0.26895    1.473     9.7871
19-Jun-2024 12:26:43.917    0.25695    1.4149    9.777
19-Jun-2024 12:26:43.967    0.45405    1.465     9.7601
19-Jun-2024 12:26:44.017    0.28095    1.417     9.7031
19-Jun-2024 12:26:44.067    0.30495    1.3789    9.87
19-Jun-2024 12:26:44.117    0.22395    1.429     9.813
19-Jun-2024 12:26:44.167    0.31005    1.4269    9.794
19-Jun-2024 12:26:44.217    0.363      1.482     9.947
19-Jun-2024 12:26:44.267    0.291      1.489     9.83
19-Jun-2024 12:26:44.317    0.303      1.4801    9.5621
19-Jun-2024 12:26:44.367    0.34605    1.458     9.566
19-Jun-2024 12:26:44.417    0.327      1.523     10.033
19-Jun-2024 12:26:44.467    0.375      1.535     9.767
19-Jun-2024 12:26:44.517    0.22395    1.511     10.079
19-Jun-2024 12:26:44.567    0.228      1.583     9.729
19-Jun-2024 12:26:44.617    0.32205    1.501     9.633
19-Jun-2024 12:26:44.667    0.327      1.4509    9.849
19-Jun-2024 12:26:44.717    0.18495    1.4921    9.966
19-Jun-2024 12:26:44.767    0.33405    1.53      9.6881
19-Jun-2024 12:26:44.817    0.42195    1.5491    9.779
19-Jun-2024 12:26:44.867    0.19695    1.4749    9.7721
19-Jun-2024 12:26:44.917    0.24795    1.489     9.729
19-Jun-2024 12:26:44.967    0.21195    1.511     9.935
19-Jun-2024 12:26:45.017    0.36705    1.563     10.009
19-Jun-2024 12:26:45.067    0.33105    1.547     9.6761
19-Jun-2024 12:26:45.117    0.34095    1.575     10.019
19-Jun-2024 12:26:45.167    0.23595    1.5251    9.7391
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19-Jun-2024 12:26:45.317	0.33405	1.528	10.194
19-Jun-2024 12:26:45.367	0.183	1.638	9.456
19-Jun-2024 12:26:45.417	0.41295	1.511	9.511
19-Jun-2024 12:26:45.467	0.07995	1.1801	11.027
19-Jun-2024 12:26:45.517	0.40605	1.698	9.6169
19-Jun-2024 12:26:45.567	-0.036	1.5041	9.777
19-Jun-2024 12:26:45.617	0.63105	1.5611	10.081
19-Jun-2024 12:26:45.667	0.18105	1.523	9.4751
19-Jun-2024 12:26:45.717	0.17295	1.4201	9.77
19-Jun-2024 12:26:45.767	0.135	1.422	10.131
19-Jun-2024 12:26:45.817	0.18495	1.547	9.5831
19-Jun-2024 12:26:45.867	0.17595	1.484	9.827
19-Jun-2024 12:26:45.917	0.19305	1.4959	9.815
19-Jun-2024 12:26:45.967	0.18105	1.5041	9.523
19-Jun-2024 12:26:46.017	0.17595	1.501	9.9281
19-Jun-2024 12:26:46.067	0.18495	1.355	9.918
19-Jun-2024 12:26:46.117	0.54495	1.425	9.368
19-Jun-2024 12:26:46.167	0.28605	1.398	10.38
19-Jun-2024 12:26:46.217	-0.06705	1.3909	9.621
19-Jun-2024 12:26:46.267	0.228	1.281	9.6739
19-Jun-2024 12:26:46.317	0.18795	1.4081	9.9371
19-Jun-2024 12:26:46.367	0.255	1.331	10.119
19-Jun-2024 12:26:46.417	0.31905	1.367	9.351
19-Jun-2024 12:26:46.467	-0.15405	1.08	9.9611
19-Jun-2024 12:26:46.517	0.05895	1.049	9.5951
19-Jun-2024 12:26:46.567	0.08505	1.0099	10.093
19-Jun-2024 12:26:46.617	0.17595	1.116	10.256
19-Jun-2024 12:26:46.667	0.16095	1.13	9.935
19-Jun-2024 12:26:46.717	0.018	1.3	9.799
19-Jun-2024 12:26:46.767	-0.47205	1.077	10.203
19-Jun-2024 12:26:46.817	-0.45795	1.02	9.447
19-Jun-2024 12:26:46.867	-0.40695	0.82605	9.2981
19-Jun-2024 12:26:46.917	-0.252	0.95805	9.03
19-Jun-2024 12:26:46.967	-0.15105	1.1209	10.502
19-Jun-2024 12:26:47.017	-0.05805	1.159	11.451
19-Jun-2024 12:26:47.067	-0.32595	1.044	9.9131
19-Jun-2024 12:26:47.117	-0.52695	0.79005	9.5621
19-Jun-2024 12:26:47.167	-0.44595	0.819	9.3581
19-Jun-2024 12:26:47.217	0.018	0.99405	9.935
19-Jun-2024 12:26:47.267	0.24	1.0391	9.89
19-Jun-2024 12:26:47.317	0.04695	0.82395	10.019
19-Jun-2024 12:26:47.367	-0.156	0.73005	9.4631
19-Jun-2024 12:26:47.417	0.07305	0.82095	9.717
19-Jun-2024 12:26:47.467	-0.063	0.93405	10.012
19-Jun-2024 12:26:47.517	-0.10605	0.94605	10.141
19-Jun-2024 12:26:47.567	-0.10995	0.87195	10.086
19-Jun-2024 12:26:47.617	0.042	0.76395	10.299
19-Jun-2024 12:26:47.667	0.267	0.795	10.036
19-Jun-2024 12:26:47.717	0.27195	0.71805	9.782
19-Jun-2024 12:26:47.767	0.54	0.903	9.346
19-Jun-2024 12:26:47.817	0.408	0.82095	10.153
19-Jun-2024 12:26:47.867	0.315	0.78105	9.9641
19-Jun-2024 12:26:47.917	0.25005	0.666	10.019
19-Jun-2024 12:26:47.967	0.42495	0.61995	9.7391
19-Jun-2024 12:26:48.017	0.252	0.38595	10.119
19-Jun-2024 12:26:48.067	0.46605	0.34005	10.141
19-Jun-2024 12:26:48.117	0.77895	0.441	9.506
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19-Jun-2024 12:26:48.267	1.452	0.98205	9.717
19-Jun-2024 12:26:48.317	1.155	0.795	10.136
19-Jun-2024 12:26:48.367	0.68805	0.66105	10.124

19-Jun-2024 12:26:48.417	0.504	0.615	10.004
19-Jun-2024 12:26:48.467	0.477	0.64695	9.875
19-Jun-2024 12:26:48.517	0.70995	0.74205	9.808
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19-Jun-2024 12:26:48.617	0.777	0.48795	10.134
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19-Jun-2024 12:26:48.867	0.71895	1.4959	10.27
19-Jun-2024 12:26:48.917	0.18105	0.936	10.115
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19-Jun-2024 12:26:49.167	0.906	0.675	9.554
19-Jun-2024 12:26:49.217	1.071	0.74505	10.486
19-Jun-2024 12:26:49.267	1.435	1.271	10.756
19-Jun-2024 12:26:49.317	1.143	1.4801	10.246
19-Jun-2024 12:26:49.367	0.489	1.5319	9.6169
19-Jun-2024 12:26:49.417	0.24495	1.147	9.825
19-Jun-2024 12:26:49.467	0.60705	1.226	9.248
19-Jun-2024 12:26:49.517	0.774	1.025	8.7
19-Jun-2024 12:26:49.567	0.765	1.226	8.032
19-Jun-2024 12:26:49.617	0.21405	1.1059	9.0521
19-Jun-2024 12:26:49.667	-0.13695	1.183	10.332
19-Jun-2024 12:26:49.717	0.41505	1.8769	10.273
19-Jun-2024 12:26:49.767	0.477	1.8199	9.511
19-Jun-2024 12:26:49.817	0.23805	1.257	10.048
19-Jun-2024 12:26:49.867	0.18105	1.195	9.4901
19-Jun-2024 12:26:49.917	0.03495	1.0991	9.906
19-Jun-2024 12:26:49.967	0.075	1.324	9.399
19-Jun-2024 12:26:50.017	0.585	0.86205	9.7841
19-Jun-2024 12:26:50.067	0.19005	0.56805	9.846
19-Jun-2024 12:26:50.117	-0.132	0.309	10.921
19-Jun-2024 12:26:50.167	-0.75495	0.63705	9.0559
19-Jun-2024 12:26:50.217	0.10605	0.759	10.093
19-Jun-2024 12:26:50.267	0.29595	0.888	10.311
19-Jun-2024 12:26:50.316	0.44205	0.87405	10.467
19-Jun-2024 12:26:50.367	0.81	1.161	10.569
19-Jun-2024 12:26:50.417	0.621	0.94305	10.143
19-Jun-2024 12:26:50.467	0.501	0.83595	9.119
19-Jun-2024 12:26:50.517	0.276	0.498	9.9371
19-Jun-2024 12:26:50.567	0.32895	0.546	9.7099
19-Jun-2024 12:26:50.617	0.15195	0.53595	9.5951
19-Jun-2024 12:26:50.667	0.051	0.49995	9.9611
19-Jun-2024 12:26:50.717	0.30495	0.68505	9.7241
19-Jun-2024 12:26:50.767	0.34305	0.76395	9.473
19-Jun-2024 12:26:50.817	0.30495	0.60105	10.335
19-Jun-2024 12:26:50.867	0.46605	0.79305	10.186
19-Jun-2024 12:26:50.917	0.40305	0.77595	10.368
19-Jun-2024 12:26:50.967	0.44205	0.888	10.153
19-Jun-2024 12:26:51.017	0.501	0.864	9.83
19-Jun-2024 12:26:51.067	0.51795	0.80895	9.753
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19-Jun-2024 12:26:51.167	0.576	0.81195	10.057
19-Jun-2024 12:26:51.217	-0.48405	1.176	9.0109
19-Jun-2024 12:26:51.267	0.60405	0.94095	10.548
19-Jun-2024 12:26:51.317	0.08205	0.81405	9.684
19-Jun-2024 12:26:51.367	0.36705	0.891	9.4991
19-Jun-2024 12:26:51.417	0.40605	0.855	10.024
19-Jun-2024 12:26:51.467	0.40605	0.84	10.292
19-Jun-2024 12:26:51.517	0.312	0.98595	10.457
19-Jun-2024 12:26:51.567	0.468	1.018	9.4009

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19-Jun-2024 12:26:51.617      0.46995      0.87405      10.249
19-Jun-2024 12:26:51.667      0.46995      0.867        9.684
19-Jun-2024 12:26:51.717      0.624        0.912        9.6311
19-Jun-2024 12:26:51.767      0.31905      0.88605      9.72
19-Jun-2024 12:26:51.817      0.324        0.924        10.052
19-Jun-2024 12:26:51.867      0.23295      0.94095      10.117
19-Jun-2024 12:26:51.917      0.255        0.99795      9.605
19-Jun-2024 12:26:51.967      0.35505      1.0271       9.7721
19-Jun-2024 12:26:52.017      0.492        0.98205      9.645
19-Jun-2024 12:26:52.067      0.25995      0.92895      9.894
19-Jun-2024 12:26:52.117      0.26205      0.89595      10.174
19-Jun-2024 12:26:52.167      0.396        0.97005      10.115
19-Jun-2024 12:26:52.217      0.327        0.99405      9.911
19-Jun-2024 12:26:52.267      0.42195      1.0459       9.822
19-Jun-2024 12:26:52.317      0.32205      0.98895      9.89
19-Jun-2024 12:26:52.367      0.46605      0.936        10.06
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19-Jun-2024 12:26:52.517      0.516        1.056        9.777
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19-Jun-2024 12:26:52.917      0.16395      0.81405      9.8629
19-Jun-2024 12:26:52.967      0.35805      0.927        10.031
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19-Jun-2024 12:26:53.167      0.39105      1.0511       9.911
19-Jun-2024 12:26:53.217      0.54         1.104        9.971
19-Jun-2024 12:26:53.267      0.41295      1.042        9.9761
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19-Jun-2024 12:26:53.367      0.54495      0.81195      10.385
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19-Jun-2024 12:26:53.567      0.30705      0.90705      9.794
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19-Jun-2024 12:26:53.667      0.39795      1.08         9.471
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19-Jun-2024 12:26:53.917      0.537        1.032        9.7151
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19-Jun-2024 12:26:54.167      0.207        1.176        9.839
19-Jun-2024 12:26:54.217      0.61905      1.0991       9.4301
19-Jun-2024 12:26:54.267      0.42495      0.95805      9.873
19-Jun-2024 12:26:54.317      0.49695      1.025        9.782
19-Jun-2024 12:26:54.367      0.279        0.89295      9.8509
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19-Jun-2024 12:26:54.467      0.315        1.0061       10.155
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19-Jun-2024 12:26:54.567      0.372        1.042        9.461
19-Jun-2024 12:26:54.617      0.42705      1.003        10.213
19-Jun-2024 12:26:54.667      0.48         1.109        9.906
19-Jun-2024 12:26:54.717      0.25005      1.02         9.528
19-Jun-2024 12:26:54.767      0.372        1.101        7.7801
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19-Jun-2024 12:26:54.917	0.126	0.867	9.329
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19-Jun-2024 12:26:55.817	0.29595	1.0579	9.791
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19-Jun-2024 12:26:56.017	0.42	0.984	10.043
19-Jun-2024 12:26:56.067	0.339	1.008	9.5711
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19-Jun-2024 12:26:56.167	0.303	0.996	9.9611
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19-Jun-2024 12:26:56.267	0.60705	1.0751	9.885
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19-Jun-2024 12:26:58.617	0.042	1.056	10.019
19-Jun-2024 12:26:58.667	-0.192	0.96	9.7361
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19-Jun-2024 12:26:58.767	-0.273	1.271	9.2651
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19-Jun-2024 12:26:58.867	-0.309	0.855	9.837
19-Jun-2024 12:26:58.917	0.147	1.001	10.028
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19-Jun-2024 12:27:00.167	0.20205	1.2	9.945
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19-Jun-2024 12:27:00.767	0.14505	1.173	9.708
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19-Jun-2024 12:27:01.167	0.042	1.109	9.5471

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19-Jun-2024 12:27:01.567	0.14895	1.188	9.906
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19-Jun-2024 12:27:01.767	0.00105	1.1329	9.842
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19-Jun-2024 12:27:03.217	-0.06495	1.173	9.933
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19-Jun-2024 12:27:03.917	-0.10305	0.95295	9.6311
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19-Jun-2024 12:27:04.217	0.10395	0.98205	10.146
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19-Jun-2024 12:27:04.367	-0.015	1.0099	10.143

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19-Jun-2024 12:27:04.867    0.09705    0.95505     9.624
19-Jun-2024 12:27:04.917   -0.13395      0.852     9.193
19-Jun-2024 12:27:04.967   -0.27105       0.63    10.426
19-Jun-2024 12:27:05.017   -0.56295    0.64395    11.115
19-Jun-2024 12:27:05.067   -0.25395     1.1449     9.65
19-Jun-2024 12:27:05.117   -0.39495      1.125     9.873
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19-Jun-2024 12:27:05.317      0.303    0.78795     9.638
19-Jun-2024 12:27:05.367     -0.087       0.84     9.664
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19-Jun-2024 12:27:05.467      0.015      1.185    10.222
19-Jun-2024 12:27:05.517      0.255     1.3841     9.653
19-Jun-2024 12:27:05.567    0.58005      1.657     9.205
19-Jun-2024 12:27:05.617    0.22395     1.1921    9.9589
19-Jun-2024 12:27:05.667     -0.048      0.975     9.554
19-Jun-2024 12:27:05.717     -0.132      0.984    10.057
19-Jun-2024 12:27:05.767     -0.003     1.3841    9.3701
19-Jun-2024 12:27:05.817    0.18795      1.647     9.681
19-Jun-2024 12:27:05.867    0.39795      1.693    10.174
19-Jun-2024 12:27:05.917    0.46305      1.915    10.696
19-Jun-2024 12:27:05.967    0.40995      1.695    9.8321
19-Jun-2024 12:27:06.017     -0.168      1.635     8.209
19-Jun-2024 12:27:06.067    0.18105     1.4441     9.581
19-Jun-2024 12:27:06.117      0.477     1.7021    9.6761
19-Jun-2024 12:27:06.167    0.46305      1.554    10.055
19-Jun-2024 12:27:06.217    0.19695      1.681    10.237
19-Jun-2024 12:27:06.267    0.28605      1.683     9.954
19-Jun-2024 12:27:06.317    0.21195     1.7599      9.6
19-Jun-2024 12:27:06.367    0.17295      1.633     9.552
19-Jun-2024 12:27:06.417      0.327     1.6541    9.0851
19-Jun-2024 12:27:06.467    0.48495     1.3789    10.127
19-Jun-2024 12:27:06.517     -0.261      1.595    9.3889
19-Jun-2024 12:27:06.567    0.54705     1.5919     10.21
19-Jun-2024 12:27:06.617    0.16095     1.5491     9.897
19-Jun-2024 12:27:06.667    0.33105      1.425     9.698
19-Jun-2024 12:27:06.717      0.159      1.293     9.648
19-Jun-2024 12:27:06.767    0.41805      1.372     9.605
19-Jun-2024 12:27:06.817      0.504       1.47     9.782
19-Jun-2024 12:27:06.867      0.375     1.5319     9.811
19-Jun-2024 12:27:06.917    0.21405       1.37     9.942
19-Jun-2024 12:27:06.967    0.09705      1.353      9.87
19-Jun-2024 12:27:07.017    0.16095      1.367     9.705
19-Jun-2024 12:27:07.067      0.327     1.4561     9.729
19-Jun-2024 12:27:07.117       0.42      1.461     9.834
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19-Jun-2024 12:27:07.217    0.21405      1.276    10.031
19-Jun-2024 12:27:07.267    0.24795      1.417    9.4751
19-Jun-2024 12:27:07.317   -0.05505      1.314    9.5351
19-Jun-2024 12:27:07.367    0.26205      1.563    10.287
19-Jun-2024 12:27:07.417    0.28605     1.9009     10.34
19-Jun-2024 12:27:07.467    0.67395     1.9661     9.557
19-Jun-2024 12:27:07.517      0.645      1.255     9.966
19-Jun-2024 12:27:07.567    0.69795     1.0459    8.9441
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19-Jun-2024 12:27:07.667	-0.58905	1.154	10.704
19-Jun-2024 12:27:07.717	0.255	1.365	9.5501
19-Jun-2024 12:27:07.767	0.408	1.6421	9.4511
19-Jun-2024 12:27:07.817	0.351	1.348	9.9949
19-Jun-2024 12:27:07.867	0.018	1.221	8.63
19-Jun-2024 12:27:07.917	-0.69495	1.056	9.9161
19-Jun-2024 12:27:07.967	-0.40305	1.2911	10.366
19-Jun-2024 12:27:08.017	-0.17805	1.1561	11.01
19-Jun-2024 12:27:08.067	-0.19695	1.1179	10.093
19-Jun-2024 12:27:08.117	0.288	1.221	9.234
19-Jun-2024 12:27:08.167	0.753	1.4749	9.494
19-Jun-2024 12:27:08.217	0.73605	1.753	9.2141
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19-Jun-2024 12:27:08.317	-0.30405	1.449	10.694
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19-Jun-2024 12:27:08.417	0.54495	0.963	9.767
19-Jun-2024 12:27:08.467	0.501	1.0991	9.231
19-Jun-2024 12:27:08.517	0.75495	1.54	8.625
19-Jun-2024 12:27:08.567	0.34305	1.975	9.0761
19-Jun-2024 12:27:08.617	-0.43395	1.88	10.091
19-Jun-2024 12:27:08.667	-0.80205	1.669	10.136
19-Jun-2024 12:27:08.717	-0.834	1.312	10.474
19-Jun-2024 12:27:08.767	-0.228	1.0871	10.663
19-Jun-2024 12:27:08.817	0.126	1.101	9.751
19-Jun-2024 12:27:08.867	0.33405	1.154	9.3559
19-Jun-2024 12:27:08.917	0.726	1.5611	9.102
19-Jun-2024 12:27:08.967	0.71505	1.5731	9.696
19-Jun-2024 12:27:09.017	0.37005	1.5199	9.9949
19-Jun-2024 12:27:09.067	0.015	1.331	10.397
19-Jun-2024 12:27:09.117	-0.17505	1.276	10.244
19-Jun-2024 12:27:09.167	0.09705	1.3789	9.32
19-Jun-2024 12:27:09.217	0.61395	1.2671	10.361
19-Jun-2024 12:27:09.267	0.78195	1.13	10.024
19-Jun-2024 12:27:09.317	0.71895	1.305	8.858
19-Jun-2024 12:27:09.367	0.348	1.542	9.138
19-Jun-2024 12:27:09.417	-0.11805	1.724	9.071
19-Jun-2024 12:27:09.467	-0.228	1.712	9.404
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19-Jun-2024 12:27:09.567	-0.84795	0.44505	11.465
19-Jun-2024 12:27:09.617	-0.54405	0.71805	9.9491
19-Jun-2024 12:27:09.667	-0.23505	1.367	9.186
19-Jun-2024 12:27:09.717	0.288	1.638	9.619
19-Jun-2024 12:27:09.767	0.384	1.08	10.548
19-Jun-2024 12:27:09.817	0.432	1.1231	9.2291
19-Jun-2024 12:27:09.867	0.17295	1.365	9.5261
19-Jun-2024 12:27:09.917	-0.32595	1.1059	9.049
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19-Jun-2024 12:27:10.017	-1.0511	0.82095	9.7751
19-Jun-2024 12:27:10.067	-0.393	0.76395	10.852
19-Jun-2024 12:27:10.117	0.46605	1.255	10.174
19-Jun-2024 12:27:10.167	0.70305	1.2979	9.272
19-Jun-2024 12:27:10.217	0.35295	0.879	9.854
19-Jun-2024 12:27:10.267	-0.051	0.71805	9.866
19-Jun-2024 12:27:10.317	-0.09405	0.92895	9.7721
19-Jun-2024 12:27:10.367	-0.039	1.0991	10.014
19-Jun-2024 12:27:10.417	0.15195	1.101	9.866
19-Jun-2024 12:27:10.467	0.06105	0.89805	9.899
19-Jun-2024 12:27:10.517	-0.192	0.85995	9.6881
19-Jun-2024 12:27:10.567	-0.22995	0.828	9.59
19-Jun-2024 12:27:10.617	-0.09105	0.89805	10.383
19-Jun-2024 12:27:10.667	0.00105	0.97695	10.162
19-Jun-2024 12:27:10.717	-0.051	0.9	9.839
19-Jun-2024 12:27:10.767	0.02505	0.94095	9.655

19-Jun-2024 12:27:10.817	0.16095	0.95505	9.952
19-Jun-2024 12:27:10.867	0.015	0.9	9.9491
19-Jun-2024 12:27:10.917	-0.05295	0.915	10.045
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19-Jun-2024 12:27:11.567	-0.024	0.984	9.9161
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19-Jun-2024 12:27:11.667	-0.168	1.032	9.5419
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19-Jun-2024 12:27:11.767	-0.17505	0.92205	9.93
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19-Jun-2024 12:27:11.867	-0.05295	0.98595	9.765
19-Jun-2024 12:27:11.917	0.147	1.0511	10.057
19-Jun-2024 12:27:11.967	0.078	1.0751	9.765
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19-Jun-2024 12:27:12.067	-0.13005	0.92205	9.837
19-Jun-2024 12:27:12.117	-0.15405	0.88605	10.143
19-Jun-2024 12:27:12.167	0.06105	0.95295	9.799
19-Jun-2024 12:27:12.217	0.04395	0.99105	9.743
19-Jun-2024 12:27:12.267	0.147	1.008	10.107
19-Jun-2024 12:27:12.317	0.03495	1.013	9.8681
19-Jun-2024 12:27:12.367	0.102	0.92895	9.8681
19-Jun-2024 12:27:12.417	-0.08205	0.864	9.983
19-Jun-2024 12:27:12.467	0.04395	0.95295	9.971
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19-Jun-2024 12:27:12.567	-0.003	1.001	9.696
19-Jun-2024 12:27:12.617	-0.11805	0.94305	9.952
19-Jun-2024 12:27:12.667	0.051	1.003	10.227
19-Jun-2024 12:27:12.717	0.07995	1.032	9.6881
19-Jun-2024 12:27:12.767	0.16905	0.99405	9.712
19-Jun-2024 12:27:12.817	0.00795	0.95805	10.004
19-Jun-2024 12:27:12.867	-0.03405	0.879	9.952
19-Jun-2024 12:27:12.917	-0.12705	0.90705	9.6169
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19-Jun-2024 12:27:13.017	0.15705	1.0751	9.981
19-Jun-2024 12:27:13.067	0.22095	0.95505	9.875
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19-Jun-2024 12:27:13.217	-0.27795	1.338	9.327
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19-Jun-2024 12:27:13.417	0.64695	0.55095	8.838
19-Jun-2024 12:27:13.467	0.23805	0.795	8.719
19-Jun-2024 12:27:13.517	0.114	0.891	10.019
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19-Jun-2024 12:27:13.967	0.10395	1.19	9.9611

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19-Jun-2024 12:27:15.967	0.19005	1.003	9.528
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19-Jun-2024 12:27:16.117	-0.08895	0.996	9.945
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19-Jun-2024 12:27:16.217	0.08205	0.96705	9.636
19-Jun-2024 12:27:16.267	0.099	1.018	10.021
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19-Jun-2024 12:27:16.817	0.06105	0.92895	10.141
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19-Jun-2024 12:27:17.317	0.81	0.936	10.277
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19-Jun-2024 12:27:17.417	-0.585	0.819	9.2531
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19-Jun-2024 12:27:17.617	0.30495	0.816	9.581
19-Jun-2024 12:27:17.667	0.501	1.0699	10.086
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19-Jun-2024 12:27:17.967	0.10905	0.83595	9.6311
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19-Jun-2024 12:27:18.317	0.01095	1.003	9.909
19-Jun-2024 12:27:18.367	-0.108	1.0819	10.222
19-Jun-2024 12:27:18.417	-0.096	1.1561	10.031
19-Jun-2024 12:27:18.467	-0.10095	1.092	9.854
19-Jun-2024 12:27:18.517	-0.015	1.077	9.8509
19-Jun-2024 12:27:18.567	0.042	0.99105	9.8801
19-Jun-2024 12:27:18.617	0.09195	0.924	9.777
19-Jun-2024 12:27:18.667	0.08505	0.94305	9.657
19-Jun-2024 12:27:18.717	0.06105	1.128	9.978
19-Jun-2024 12:27:18.767	-0.003	1.147	9.801
19-Jun-2024 12:27:18.817	-0.012	1.135	9.7601
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19-Jun-2024 12:27:18.917	-0.16995	1.137	10.093
19-Jun-2024 12:27:18.967	0.18495	1.097	11.115
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19-Jun-2024 12:27:19.117	-0.25905	1.1059	9.897
19-Jun-2024 12:27:19.167	-0.144	1.1329	9.9371
19-Jun-2024 12:27:19.217	-0.26595	1.171	9.9761
19-Jun-2024 12:27:19.267	0.10605	1.226	10.208
19-Jun-2024 12:27:19.317	0.14895	1.2041	10.198
19-Jun-2024 12:27:19.367	0.09405	1.3579	8.999
19-Jun-2024 12:27:19.417	0.00795	1.077	9.827
19-Jun-2024 12:27:19.467	0.32895	1.183	10.074
19-Jun-2024 12:27:19.517	0.19005	1.2859	9.9131
19-Jun-2024 12:27:19.567	0.03195	1.348	9.9161
19-Jun-2024 12:27:19.617	-0.084	1.3961	9.83
19-Jun-2024 12:27:19.667	0.585	1.233	9.758
19-Jun-2024 12:27:19.717	0.24	1.226	10.747
19-Jun-2024 12:27:19.767	-0.288	1.458	9.346
19-Jun-2024 12:27:19.817	-0.201	1.0699	9.8179
19-Jun-2024 12:27:19.867	-0.027	1.3459	10.095
19-Jun-2024 12:27:19.917	0.14205	1.5079	9.5951
19-Jun-2024 12:27:19.967	-0.25905	1.247	9.732
19-Jun-2024 12:27:20.017	0.123	1.2791	9.933
19-Jun-2024 12:27:20.067	0.195	1.458	10.263
19-Jun-2024 12:27:20.117	-0.60405	0.85695	6.54
19-Jun-2024 12:27:20.167	0.72195	1.3219	12.008
19-Jun-2024 12:27:20.217	-1.178	1.5079	8.8669
19-Jun-2024 12:27:20.267	0.195	1.4749	9.641
19-Jun-2024 12:27:20.317	0.07995	1.5251	9.3409
19-Jun-2024 12:27:20.367	0.147	1.367	10.155

19-Jun-2024 12:27:20.417	-0.12	1.473	9.834
19-Jun-2024 12:27:20.467	-0.225	1.2401	9.9949
19-Jun-2024 12:27:20.517	-0.15405	1.2739	10.024
19-Jun-2024 12:27:20.567	-0.10995	1.3579	9.7
19-Jun-2024 12:27:20.617	0.15405	1.4201	9.822
19-Jun-2024 12:27:20.667	0.01095	1.35	9.746
19-Jun-2024 12:27:20.717	-0.23295	1.2739	9.7841
19-Jun-2024 12:27:20.767	-0.02205	1.312	9.743
19-Jun-2024 12:27:20.817	-0.05805	1.312	10.067
19-Jun-2024 12:27:20.867	-0.04305	1.372	9.7841
19-Jun-2024 12:27:20.917	-0.108	1.295	9.698
19-Jun-2024 12:27:20.967	-0.05505	1.3841	9.837
19-Jun-2024 12:27:21.017	0.15705	1.473	9.377
19-Jun-2024 12:27:21.067	0.91605	2.073	10.265
19-Jun-2024 12:27:21.117	1.224	2.198	10.184
19-Jun-2024 12:27:21.167	1.7539	1.4869	8.683
19-Jun-2024 12:27:21.217	1.5551	0.963	9.176
19-Jun-2024 12:27:21.267	1.306	1.276	9.399
19-Jun-2024 12:27:21.317	0.858	1.4921	9.2119
19-Jun-2024 12:27:21.367	0.528	1.611	9.336
19-Jun-2024 12:27:21.417	1.059	2.559	10.265
19-Jun-2024 12:27:21.467	0.98295	1.7	9.1811
19-Jun-2024 12:27:21.517	1.512	1.008	11.68
19-Jun-2024 12:27:21.567	0.96795	1.2161	7.378
19-Jun-2024 12:27:21.617	1.442	1.779	7.718
19-Jun-2024 12:27:21.667	3.209	0.891	11.154
19-Jun-2024 12:27:21.717	3.142	1.018	9.5711
19-Jun-2024 12:27:21.767	2.536	0.474	8.534
19-Jun-2024 12:27:21.817	3.698	-0.387	9.351
19-Jun-2024 12:27:21.867	4.179	-0.597	7.577
19-Jun-2024 12:27:21.917	6.453	-1.33	8.5369
19-Jun-2024 12:27:21.967	7.593	-2.113	8.372
19-Jun-2024 12:27:22.017	7.042	-2.6111	3.801
19-Jun-2024 12:27:22.067	7.983	-2.702	3.516
19-Jun-2024 12:27:22.117	7.947	-3.629	3.6911
19-Jun-2024 12:27:22.167	8.642	-4.112	3.147
19-Jun-2024 12:27:22.217	8.539	-3.842	4.213
19-Jun-2024 12:27:22.267	8.615	-3.545	4.041
19-Jun-2024 12:27:22.317	9.432	-3.767	3.2239
19-Jun-2024 12:27:22.367	8.613	-3.87	2.791
19-Jun-2024 12:27:22.417	9.726	-3.085	2.278
19-Jun-2024 12:27:22.467	9.8321	-3.957	2.092
19-Jun-2024 12:27:22.517	11.077	-4.974	1.6271
19-Jun-2024 12:27:22.567	12.085	-5.7881	3.3319
19-Jun-2024 12:27:22.617	12.417	-3.897	4.5941
19-Jun-2024 12:27:22.667	8.898	-3.475	3.8081
19-Jun-2024 12:27:22.717	9.001	-6.0281	2.6591
19-Jun-2024 12:27:22.767	8.805	-7.031	1.9961
19-Jun-2024 12:27:22.817	8.079	-6.7459	2.07
19-Jun-2024 12:27:22.867	7.696	-5.5301	2.669
19-Jun-2024 12:27:22.917	6.7691	-5.3479	2.5631
19-Jun-2024 12:27:22.967	6.6311	-5.3239	2.4289
19-Jun-2024 12:27:23.017	6.032	-5.372	2.2279
19-Jun-2024 12:27:23.067	5.886	-5.407	1.325
19-Jun-2024 12:27:23.117	7.109	-5.853	1.203
19-Jun-2024 12:27:23.167	9.525	-7.1531	1.203
19-Jun-2024 12:27:23.217	9.786	-8.376	1.359
19-Jun-2024 12:27:23.267	7.821	-4.893	3.042
19-Jun-2024 12:27:23.317	6.6739	-2.939	3.092
19-Jun-2024 12:27:23.367	7.488	-5.613	2.223
19-Jun-2024 12:27:23.417	9.1421	-6.078	1.4
19-Jun-2024 12:27:23.467	7.495	-5.3689	1.9309
19-Jun-2024 12:27:23.517	6.523	-4.6871	2.7281
19-Jun-2024 12:27:23.567	6.518	-4.258	1.7711

19-Jun-2024 12:27:23.617	7.107	-4.282	1.036
19-Jun-2024 12:27:23.667	7.9931	-3.8801	0.70995
19-Jun-2024 12:27:23.717	8.838	-4.4809	0.48495
19-Jun-2024 12:27:23.767	9.8201	-6.348	1.68
19-Jun-2024 12:27:23.817	11.201	-7.253	2.104
19-Jun-2024 12:27:23.867	11.345	-7.2919	2.355
19-Jun-2024 12:27:23.917	9.5831	-3.114	3.346
19-Jun-2024 12:27:23.967	7.047	-5.735	3.48
19-Jun-2024 12:27:24.017	8.8331	-7.61	2.561
19-Jun-2024 12:27:24.067	8.4169	-7.419	2.9539
19-Jun-2024 12:27:24.117	7.2199	-6.018	3.121
19-Jun-2024 12:27:24.167	7.188	-5.5301	2.5061
19-Jun-2024 12:27:24.217	7.287	-5.6921	2.1469
19-Jun-2024 12:27:24.267	6.6109	-5.563	1.6969
19-Jun-2024 12:27:24.317	5.661	-5.771	1.06
19-Jun-2024 12:27:24.367	5.6269	-6.729	1.1441
19-Jun-2024 12:27:24.417	8.5601	-8.352	0.82695
19-Jun-2024 12:27:24.467	8.304	-8.304	-0.189
19-Jun-2024 12:27:24.517	5.7139	-7.8041	1.294
19-Jun-2024 12:27:24.567	5.007	-4.287	3.1879
19-Jun-2024 12:27:24.617	7.497	-5.5271	2.69
19-Jun-2024 12:27:24.667	10.37	-5.728	0.73395
19-Jun-2024 12:27:24.717	10.349	-5.075	0.705
19-Jun-2024 12:27:24.767	8.553	-4.857	2.2039
19-Jun-2024 12:27:24.817	7.2439	-4.586	2.898
19-Jun-2024 12:27:24.867	6.444	-4.555	2.4221
19-Jun-2024 12:27:24.917	6.36	-4.407	1.416
19-Jun-2024 12:27:24.967	7.6601	-4.488	1.7539
19-Jun-2024 12:27:25.017	9.506	-6.351	1.764
19-Jun-2024 12:27:25.067	11.828	-6.9881	2.4769
19-Jun-2024 12:27:25.117	12.753	-6.609	3.3199
19-Jun-2024 12:27:25.167	9.9251	-3.959	2.592
19-Jun-2024 12:27:25.217	8.742	-6.71	2.2999
19-Jun-2024 12:27:25.267	8.86	-8.235	2.444
19-Jun-2024 12:27:25.317	7.679	-7.806	2.52
19-Jun-2024 12:27:25.367	6.858	-6.8441	2.8361
19-Jun-2024 12:27:25.417	6.346	-6.4009	2.113
19-Jun-2024 12:27:25.467	6.0971	-6.186	1.742
19-Jun-2024 12:27:25.517	5.1529	-5.604	1.9481
19-Jun-2024 12:27:25.567	4.301	-5.822	1.764
19-Jun-2024 12:27:25.617	5.747	-7.203	1.215
19-Jun-2024 12:27:25.667	7.6579	-8.3741	0.59295
19-Jun-2024 12:27:25.717	6.643	-7.857	0.81795
19-Jun-2024 12:27:25.767	7.583	-6.368	1.7441
19-Jun-2024 12:27:25.817	8.527	-4.4329	2.7881
19-Jun-2024 12:27:25.867	9.846	-6.0229	2.796
19-Jun-2024 12:27:25.917	10.042	-5.5729	2.23
19-Jun-2024 12:27:25.967	8.206	-5.0119	2.5699
19-Jun-2024 12:27:26.017	7.473	-5.12	2.479
19-Jun-2024 12:27:26.067	6.7961	-5.309	2.5901
19-Jun-2024 12:27:26.117	6.48	-4.902	2.46
19-Jun-2024 12:27:26.167	6.58	-4.593	2.3479
19-Jun-2024 12:27:26.217	7.859	-4.869	1.977
19-Jun-2024 12:27:26.267	9.5081	-5.9531	1.977
19-Jun-2024 12:27:26.317	10.72	-6.684	3.475
19-Jun-2024 12:27:26.367	10.21	-5.925	4.443
19-Jun-2024 12:27:26.417	9.774	-5.735	3.411
19-Jun-2024 12:27:26.467	10.306	-8.575	2.877
19-Jun-2024 12:27:26.517	9.523	-8.527	3.387
19-Jun-2024 12:27:26.567	7.902	-7.1651	2.7881
19-Jun-2024 12:27:26.617	6.597	-6.657	2.879
19-Jun-2024 12:27:26.667	6.042	-6.183	2.487
19-Jun-2024 12:27:26.717	5.826	-5.7619	2.1559
19-Jun-2024 12:27:26.767	6.1399	-4.737	0.93

19-Jun-2024 12:27:26.817	6.9079	-4.747	1.606
19-Jun-2024 12:27:26.867	9.511	-4.6579	2.891
19-Jun-2024 12:27:26.917	12.506	-3.918	6.171
19-Jun-2024 12:27:26.967	12.652	-1.605	7.529
19-Jun-2024 12:27:27.017	10.296	0.37095	8.8031
19-Jun-2024 12:27:27.067	9.36	-0.78705	9.815
19-Jun-2024 12:27:27.117	6.087	-1.682	6.717
19-Jun-2024 12:27:27.167	6.075	-1.349	8.81
19-Jun-2024 12:27:27.217	4.931	-0.753	8.07
19-Jun-2024 12:27:27.267	2.8931	0.78495	2.3861
19-Jun-2024 12:27:27.317	1.7389	0.31395	6.636
19-Jun-2024 12:27:27.367	1.124	0.702	6.109
19-Jun-2024 12:27:27.417	2.6179	1.5971	7.069
19-Jun-2024 12:27:27.467	1.114	1.59	8.01
19-Jun-2024 12:27:27.517	1.5019	2.375	9.1691
19-Jun-2024 12:27:27.567	1.378	1.7839	11.35
19-Jun-2024 12:27:27.617	0.288	1.135	13.206
19-Jun-2024 12:27:27.667	0.73095	1.367	13.244
19-Jun-2024 12:27:27.717	-0.90105	2.598	6.686
19-Jun-2024 12:27:27.767	-0.71895	1.633	11.199
19-Jun-2024 12:27:27.817	-0.369	1.9541	8.81
19-Jun-2024 12:27:27.867	0.96795	1.9939	7.479
19-Jun-2024 12:27:27.917	0.70305	1.872	8.199
19-Jun-2024 12:27:27.967	1.294	2.1671	6.126
19-Jun-2024 12:27:28.017	0.73095	2.698	4.795
19-Jun-2024 12:27:28.067	1.347	2.931	7.8161
19-Jun-2024 12:27:28.117	1.995	2.16	13.28
19-Jun-2024 12:27:28.167	0.98505	2.193	12.966
19-Jun-2024 12:27:28.217	2.113	2.9899	9.4009
19-Jun-2024 12:27:28.267	2.721	0.77295	15.514
19-Jun-2024 12:27:28.317	0.65505	2.327	7.986
19-Jun-2024 12:27:28.367	0.24	1.8199	7.7111
19-Jun-2024 12:27:28.417	1.959	1.7329	9.234
19-Jun-2024 12:27:28.467	2.01	1.851	10.04
19-Jun-2024 12:27:28.517	-0.819	3.855	7.603
19-Jun-2024 12:27:28.567	0.48195	2.7889	8.57
19-Jun-2024 12:27:28.617	-2.6599	2.751	5.994
19-Jun-2024 12:27:28.667	1.265	2.7731	10.067
19-Jun-2024 12:27:28.717	0.25695	2.1	10.61
19-Jun-2024 12:27:28.767	0.549	1.86	10.129
19-Jun-2024 12:27:28.817	1.787	0.30195	14.637
19-Jun-2024 12:27:28.867	0.22395	0.177	12.068
19-Jun-2024 12:27:28.917	0.80295	1.578	8.2639
19-Jun-2024 12:27:28.967	1.0879	0.91905	11
19-Jun-2024 12:27:29.017	2.046	0.87195	11.896
19-Jun-2024 12:27:29.067	1.6961	1.446	7.886
19-Jun-2024 12:27:29.117	1.208	1.997	6.7459
19-Jun-2024 12:27:29.167	1.411	2.2121	7.227
19-Jun-2024 12:27:29.217	1.122	2.423	8.501
19-Jun-2024 12:27:29.267	1.548	2.995	9.4991
19-Jun-2024 12:27:29.317	1.423	2.375	10.304
19-Jun-2024 12:27:29.367	1.7779	2.306	9.609
19-Jun-2024 12:27:29.417	1.382	2.342	10.246
19-Jun-2024 12:27:29.467	3.3649	2.7611	10.708
19-Jun-2024 12:27:29.517	1.751	2.0351	10.586
19-Jun-2024 12:27:29.567	2.8451	2.392	8.283
19-Jun-2024 12:27:29.617	3.568	2.0539	10.548
19-Jun-2024 12:27:29.667	1.524	2.6149	7.412
19-Jun-2024 12:27:29.717	1.94	3.2681	7.0069
19-Jun-2024 12:27:29.767	1.423	3.0859	7.763
19-Jun-2024 12:27:29.817	1.821	3.2111	8.178
19-Jun-2024 12:27:29.867	1.2101	3.309	7.6841
19-Jun-2024 12:27:29.917	1.4621	3.4211	10.179
19-Jun-2024 12:27:29.967	1.785	3.678	11.451

```
19-Jun-2024 12:27:30.017        1.131        3.338      10.112
19-Jun-2024 12:27:30.067       2.4499        2.136      12.832
19-Jun-2024 12:27:30.117      0.68805       1.6189      10.158
19-Jun-2024 12:27:30.167     -0.14205        2.725      6.8179
19-Jun-2024 12:27:30.217        1.533       1.8011      11.056
19-Jun-2024 12:27:30.267          2.9        1.992      10.057
19-Jun-2024 12:27:30.317        2.024        2.129       7.752
19-Jun-2024 12:27:30.367         1.67        2.184       4.864
19-Jun-2024 12:27:30.417       1.4329       1.9849       1.558
19-Jun-2024 12:27:30.467        2.323        1.224      3.1429
19-Jun-2024 12:27:30.517        3.755     -0.27195      5.3239
19-Jun-2024 12:27:30.567        5.024       -1.541       1.424
19-Jun-2024 12:27:30.617        9.528       -5.611      11.539
19-Jun-2024 12:27:30.667        8.168       -7.325      2.7761
19-Jun-2024 12:27:30.717        8.819       -9.446      7.9961
19-Jun-2024 12:27:30.767       8.4049      -11.752       9.377
19-Jun-2024 12:27:30.817        9.717      -12.391      9.1661
19-Jun-2024 12:27:30.867       12.326       -8.077       9.985
19-Jun-2024 12:27:30.917       12.209       -4.909       7.213
19-Jun-2024 12:27:30.967       10.291       -4.761       3.626
19-Jun-2024 12:27:31.017        8.316       -4.512       2.879
19-Jun-2024 12:27:31.067        7.069       -4.131       3.243
19-Jun-2024 12:27:31.117       7.6669      -4.5019      3.8899
19-Jun-2024 12:27:31.167        9.408       -5.673      4.4329
19-Jun-2024 12:27:31.217        10.94      -9.2119         5.8
19-Jun-2024 12:27:31.267       10.215       -5.747       6.885
19-Jun-2024 12:27:31.317         8.85       -7.737       3.871
19-Jun-2024 12:27:31.367        8.141      -10.246       2.384
19-Jun-2024 12:27:31.417        9.015       -8.807       3.763
19-Jun-2024 12:27:31.467       7.4809      -8.2279      2.8361
19-Jun-2024 12:27:31.517        5.381        -8.01       3.021
19-Jun-2024 12:27:31.567        4.837       -7.421      2.9989
19-Jun-2024 12:27:31.617        3.463      -6.6311       2.484
19-Jun-2024 12:27:31.667       3.6949       -5.745      2.0629
19-Jun-2024 12:27:31.717        3.959      -6.2141       1.376
19-Jun-2024 12:27:31.767        5.843      -8.1941      1.7659
19-Jun-2024 12:27:31.817        7.311      -8.6951       2.573
19-Jun-2024 12:27:31.867        8.012       -9.983       2.568
19-Jun-2024 12:27:31.917        7.018       -4.234      4.0069
19-Jun-2024 12:27:31.967         8.91      -5.4649      3.3491
19-Jun-2024 12:27:32.017       10.277       -6.595       2.487
19-Jun-2024 12:27:32.067       10.263       -5.439       2.702
19-Jun-2024 12:27:32.117        7.296       -4.842       3.543
19-Jun-2024 12:27:32.167        7.107      -4.5431       2.271
19-Jun-2024 12:27:32.217       6.5659      -5.2931      2.1799
19-Jun-2024 12:27:32.267       7.4329      -4.6579       2.697
19-Jun-2024 12:27:32.317        7.323      -4.4591      2.3531
19-Jun-2024 12:27:32.367       7.7509      -5.7229       2.951
19-Jun-2024 12:27:32.417        9.889       -9.207       3.789
19-Jun-2024 12:27:32.467       10.969      -8.3591       5.144
19-Jun-2024 12:27:32.517        9.489       -5.077       5.609
19-Jun-2024 12:27:32.567        9.111       -8.096       2.829
19-Jun-2024 12:27:32.617         7.56       -8.379       4.112
1...
```

```matlab
% Convert the timetable to a table and remove the 'Timestamp' variable (if it
exists)
testTable = timetable2table(testAcceleration, "ConvertRowTimes", false);

% Ensure the table has the same structure as the training data (excluding the
response variable)
```

```
% For example, if the training data had columns 'X', 'Y', 'Z' for acceleration
predictorVars = {'X', 'Y', 'Z'};

% Select the necessary predictors from the test table
testPredictors = testTable(:, predictorVars);

% Display the prepared test predictors to verify
disp("Prepared test predictors:");
```

Prepared test predictors:

```
disp(testPredictors);
```

X	Y	Z
0.77895	1.341	10.883
0.501	1.247	9.5831
0.92505	1.219	10.11
0.561	1.0871	9.839
0.75495	1.113	9.7271
0.82905	1.185	9.6
0.849	1.226	9.511
0.612	1.049	10.411
0.79395	1.367	9.4991
0.88695	1.4269	10.105
0.79605	1.429	9.861
1.16	1.607	9.5741
0.96405	1.417	9.696
1.0759	1.386	9.947
0.97095	1.441	9.387
0.82695	1.4749	10.04
0.94695	1.489	9.866
1.196	1.657	9.686
0.86505	1.353	10.079
1.16	1.681	9.461
1.344	1.908	9.2291
1.349	1.7891	9.1781
1.687	1.798	9.54
1.44	1.657	9.114
1.277	1.166	9.377
1.191	1.19	10.615
0.92295	1.109	10.304
0.504	0.85005	9.693
1.0571	1.032	9.935
1.031	1.125	10.725
1.4329	1.736	9.116
0.90105	1.4959	8.968
0.729	1.257	9.552
0.79395	1.1449	10.17
0.801	1.3031	9.801
0.789	1.484	9.42
0.36495	1.348	10.287
0.59505	1.8821	8.862
0.813	2.4971	7.991
0.36495	2.258	7.9601
0.46095	2.04	7.61
1.2221	1.8439	8.4079
0.04905	1.422	7.8311
0.10395	1.331	9.815
1.83	0.89805	10.909
1.239	1.2619	10.32

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| | | |
|---|---|---|
| 0.29595 | 0.90495 | 10.024 |
| 0.88005 | 0.64395 | 12.777 |
| 0.07005 | 0.86205 | 12.954 |
| 0.348 | 0.37395 | 12.312 |
| 0.47505 | 0.50295 | 10.117 |
| -0.98205 | 0.273 | 10.833 |
| -1.449 | 0.68205 | 8.8819 |
| -1.372 | 0.642 | 8.6951 |
| -1.135 | 0.65805 | 9.1781 |
| 0.29595 | 0.43095 | 11.623 |
| 0.67395 | 0.50805 | 10.117 |
| 1.299 | 1.207 | 9.19 |
| 1.014 | 1.602 | 8.388 |
| 0.55905 | 1.233 | 9.8921 |
| 0.01995 | 1.343 | 9.708 |
| -0.29505 | 1.2671 | 9.882 |
| -0.228 | 1.3459 | 10.507 |
| -0.357 | 0.85995 | 10.701 |
| -0.09405 | 0.54405 | 10.105 |
| 0.01995 | 0.48405 | 10.052 |
| 0.219 | 0.81195 | 9.65 |
| 0.44895 | 1.1681 | 9.6881 |
| 0.45795 | 1.461 | 9.1691 |
| -0.17805 | 0.98895 | 10.32 |
| -0.02205 | 0.96705 | 9.866 |
| -0.23295 | 0.73995 | 10.361 |
| 0.01305 | 0.975 | 10.275 |
| 0.102 | 0.831 | 10.299 |
| 0.228 | 0.82095 | 9.6761 |
| 0.348 | 0.70605 | 9.5951 |
| 0.396 | 0.75405 | 9.808 |
| 0.41295 | 0.951 | 10.064 |
| 0.315 | 1.0511 | 9.894 |
| 0.30495 | 1.044 | 9.9611 |
| 0.19005 | 0.88605 | 9.8629 |
| -0.192 | 0.606 | 10.435 |
| -0.40305 | 0.79305 | 9.0761 |
| -0.087 | 0.73995 | 10.596 |
| -0.309 | 0.771 | 10.127 |
| -0.345 | 0.89805 | 9.849 |
| -0.24 | 0.972 | 9.72 |
| -0.26595 | 0.99795 | 10.036 |
| -0.37605 | 1.4389 | 9.5621 |
| -0.453 | 1.326 | 10.112 |
| -0.855 | 1.245 | 10.162 |
| -1.2791 | 0.85005 | 9.487 |
| -0.975 | 0.76095 | 9.506 |
| -1.001 | 0.816 | 9.408 |
| -1.128 | 0.771 | 10.32 |
| -1.1929 | 0.867 | 9.619 |
| -1.2619 | 1.1329 | 9.6431 |
| -1.13 | 1.171 | 10.763 |
| -1.13 | 0.90705 | 10.579 |
| -0.49095 | 0.98895 | 10.043 |
| -0.74505 | 1.049 | 9.4751 |
| -0.132 | 0.99795 | 9.753 |
| 0.56805 | 1.221 | 10.007 |
| 0.669 | 1.3961 | 10.268 |
| 0.384 | 1.664 | 9.001 |
| -0.204 | 1.4441 | 9.437 |
| -0.67095 | 1.101 | 10.012 |
| -0.43605 | 1.0991 | 10.131 |
| -0.156 | 1.413 | 9.7151 |
| 0.504 | 1.571 | 9.54 |

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|---|---|---|
| -0.30195 | 1.142 | 9.9251 |
| -0.71895 | 0.867 | 10.129 |
| -0.336 | 1.271 | 8.379 |
| -1.3459 | 0.86205 | 9.2981 |
| -1.545 | 0.82605 | 9.581 |
| -0.46005 | 1.499 | 10.297 |
| -1.719 | 0.477 | 11.427 |
| -1.53 | 0.38595 | 10.191 |
| -0.52905 | 0.55095 | 10.069 |
| -0.12495 | 0.69705 | 10.139 |
| 0.22605 | 1.226 | 9.7241 |
| -0.16305 | 1.128 | 9.837 |
| -0.33105 | 1.0871 | 9.899 |
| -0.28005 | 1.243 | 9.509 |
| -0.31905 | 1.226 | 9.8059 |
| -0.67605 | 1.0459 | 10.421 |
| -0.73995 | 1.044 | 9.93 |
| -0.585 | 1.116 | 9.77 |
| -0.714 | 1.159 | 9.5209 |
| -0.60105 | 1.231 | 9.842 |
| -0.24 | 1.389 | 9.447 |
| -0.489 | 1.2281 | 9.5381 |
| -1.209 | 0.927 | 9.9131 |
| -1.03 | 0.99795 | 9.693 |
| -0.276 | 1.4749 | 9.032 |
| -0.381 | 1.453 | 10.129 |
| -0.132 | 1.64 | 9.803 |
| 0.183 | 1.662 | 9.9919 |
| 0.04395 | 1.554 | 9.9371 |
| -0.06 | 1.2349 | 10.165 |
| 0.02295 | 1.4321 | 9.669 |
| -0.10305 | 1.389 | 9.4751 |
| -0.003 | 1.628 | 10.172 |
| 0.207 | 1.8889 | 9.696 |
| 0.147 | 1.707 | 10.076 |
| 0.13995 | 1.611 | 9.42 |
| -0.18705 | 1.1681 | 10.1 |
| -0.00495 | 1.3 | 9.147 |
| 0.23595 | 1.255 | 10.206 |
| 0.063 | 1.2791 | 9.801 |
| 0.09 | 1.566 | 9.2741 |
| 0.34305 | 1.307 | 10.706 |
| 0.339 | 1.5679 | 9.985 |
| 0.171 | 1.329 | 10.002 |
| -0.015 | 1.176 | 9.777 |
| -0.03105 | 1.2161 | 9.844 |
| 0.12795 | 1.37 | 10.167 |
| 0.14505 | 1.652 | 10.174 |
| 0.252 | 1.7329 | 9.878 |
| 0.20505 | 1.501 | 9.5299 |
| 0.58005 | 1.5319 | 9.6431 |
| 0.36705 | 1.3789 | 9.614 |
| 0.22395 | 1.35 | 10.172 |
| 0.22095 | 1.4441 | 10.256 |
| 0.054 | 1.5919 | 10.079 |
| 0.58305 | 1.8199 | 10.119 |
| 0.62595 | 1.705 | 9.231 |
| 0.291 | 1.202 | 9.035 |
| -0.19905 | 0.94605 | 9.478 |
| -0.67605 | 0.984 | 9.717 |
| -0.19905 | 1.245 | 10.342 |
| 0.17805 | 1.559 | 10.234 |
| 0.26895 | 1.494 | 9.921 |
| 0.24 | 1.264 | 9.7241 |

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| 0.35805 | 1.166 | 9.5501 |
| 0.291 | 1.305 | 9.511 |
| 0.339 | 1.207 | 9.9589 |
| 0.14205 | 1.283 | 9.5381 |
| 0.45795 | 1.4149 | 9.99 |
| 0.516 | 1.317 | 9.5419 |
| 0.04395 | 1.068 | 9.564 |
| -0.22095 | 0.867 | 10.682 |
| 0.11595 | 1.0511 | 10.273 |
| 0.66195 | 1.178 | 9.234 |
| 0.46995 | 1.305 | 9.3581 |
| 0.79095 | 1.224 | 9.906 |
| 0.61905 | 1.097 | 9.751 |
| 0.45795 | 0.90495 | 9.777 |
| 0.49905 | 0.88395 | 10.05 |
| 0.60705 | 0.93405 | 10.131 |
| 0.705 | 1.1329 | 9.8179 |
| 0.48705 | 1.0391 | 9.796 |
| 0.489 | 0.984 | 9.717 |
| 0.54 | 0.996 | 9.669 |
| 0.52305 | 0.96495 | 9.763 |
| 0.66405 | 1.042 | 10.423 |
| 0.588 | 1.085 | 10.098 |
| 0.015 | 0.83595 | 8.996 |
| 0.28095 | 0.75705 | 9.765 |
| 0.387 | 0.735 | 9.602 |
| 0.228 | 0.747 | 10.476 |
| 0.02505 | 0.723 | 10.06 |
| 0.03195 | 0.99405 | 9.315 |
| 0.087 | 1.0391 | 9.523 |
| 0.375 | 1.113 | 10.002 |
| 0.54 | 1.1681 | 9.751 |
| 0.46605 | 0.93105 | 9.581 |
| 0.24 | 0.627 | 9.6289 |
| 0.114 | 0.381 | 10.158 |
| 0.30705 | 0.58905 | 9.396 |
| 0.21705 | 0.56295 | 10.069 |
| 0.30705 | 0.63 | 9.858 |
| 0.33405 | 0.77805 | 9.8201 |
| 0.39105 | 0.807 | 9.856 |
| 0.492 | 0.87405 | 10.069 |
| 0.43905 | 0.74505 | 10.095 |
| 0.26895 | 0.75705 | 9.765 |
| 0.30495 | 0.69195 | 10.251 |
| 0.29295 | 0.77295 | 9.7361 |
| 0.387 | 0.67995 | 9.897 |
| 0.17595 | 0.78795 | 9.459 |
| 0.47505 | 0.96705 | 10.818 |
| 0.255 | 0.735 | 11.005 |
| 0.30705 | 0.534 | 10.203 |
| 0.10905 | 0.86205 | 8.829 |
| -0.46695 | 1.049 | 8.853 |
| 0.05595 | 1.528 | 9.8629 |
| -0.24195 | 1.587 | 8.9921 |
| -0.66105 | 1.128 | 10.17 |
| -0.47895 | 1.161 | 9.77 |
| 0.02295 | 1.4201 | 9.612 |
| 0.159 | 1.4389 | 10.038 |
| 0.12795 | 1.5319 | 9.569 |
| -0.06 | 1.41 | 9.791 |
| -0.29505 | 1.1209 | 9.554 |
| -0.024 | 1.173 | 9.911 |
| -0.237 | 1.137 | 9.734 |
| 0.10395 | 1.348 | 9.696 |

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| 0.08205 | 1.1801 | 9.8509 |
| 0.279 | 1.2 | 10.366 |
| 0.61395 | 1.4629 | 9.123 |
| 0.20205 | 1.176 | 10.045 |
| 0.195 | 1.4389 | 9.2291 |
| -0.039 | 1.212 | 9.935 |
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| 0.255 | 1.575 | 9.351 |
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| 0.84405 | 1.745 | 9.844 |
| 0.576 | 1.226 | 10.89 |
| 0.99195 | 1.2401 | 9.518 |
| 0.822 | 1.312 | 8.757 |
| 1.09 | 1.312 | 9.8179 |
| 0.85305 | 1.382 | 9.734 |
| 0.41805 | 1.173 | 9.997 |
| 0.16395 | 1.341 | 9.834 |
| 0.573 | 1.5611 | 10.373 |
| 0.03195 | 1.161 | 9.811 |
| 0.291 | 1.2349 | 9.664 |
| 0.99 | 1.5611 | 9.7751 |
| 1.742 | 1.793 | 10.79 |
| 1.2679 | 1.367 | 9.93 |
| 0.978 | 1.458 | 9.8059 |
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| -0.16605 | 0.87195 | 9.6169 |
| 0.56805 | 1.202 | 9.5591 |
| 0.89595 | 1.197 | 10.325 |
| 0.68295 | 1.1921 | 9.7099 |
| 0.30705 | 1.068 | 9.672 |
| 0.228 | 0.96 | 10 |
| 0.41805 | 1.1059 | 9.873 |
| 0.348 | 1.2041 | 9.899 |
| 0.54705 | 1.212 | 9.902 |
| 0.37905 | 1.1681 | 9.5329 |
| 0.504 | 1.1059 | 9.741 |
| 0.549 | 1.137 | 9.8801 |
| 0.585 | 1.037 | 9.935 |
| 0.45105 | 1.073 | 9.557 |
| 0.31905 | 1.0339 | 9.906 |
| 0.55605 | 1.116 | 9.854 |
| 1.2049 | 1.372 | 9.882 |
| -0.189 | 0.70605 | 9.9281 |
| -0.19395 | 0.78105 | 9.842 |
| 0.25995 | 1.03 | 9.755 |
| 0.16395 | 0.98595 | 9.8629 |
| 0.348 | 0.99405 | 9.935 |
| 0.55605 | 0.94305 | 10.241 |
| 0.492 | 0.78795 | 9.9919 |
| 0.47505 | 0.70605 | 9.8509 |
| 0.231 | 0.714 | 9.686 |
| 0.13995 | 0.78105 | 9.593 |
| -0.027 | 0.714 | 9.813 |
| 0.219 | 0.876 | 10.198 |
| 0.37905 | 1.044 | 10.088 |
| 0.573 | 1.1179 | 9.856 |
| 0.492 | 0.96 | 9.763 |
| 0.52095 | 0.951 | 9.669 |
| 0.50895 | 0.84 | 9.945 |

| | | |
|---|---|---|
| 0.55905 | 0.95805 | 9.698 |
| 0.48705 | 0.99105 | 10.071 |
| 0.477 | 0.99105 | 9.99 |
| 0.46305 | 0.996 | 9.8179 |
| 0.40605 | 0.92895 | 9.743 |
| 0.73605 | 1.003 | 9.9371 |
| 0.50895 | 1.0061 | 10.093 |
| 0.42 | 0.94095 | 9.8179 |
| 0.28095 | 0.819 | 10.031 |
| 0.55605 | 1.037 | 9.5591 |
| 0.47505 | 0.99405 | 10.074 |
| 0.54195 | 1.032 | 9.753 |
| 0.46095 | 0.912 | 9.966 |
| 0.477 | 0.97695 | 9.83 |
| 0.513 | 0.963 | 9.988 |
| 0.46095 | 0.98895 | 9.698 |
| 0.38895 | 0.87195 | 9.878 |
| 0.43695 | 0.924 | 9.99 |
| 0.492 | 0.90705 | 9.966 |
| 0.47505 | 0.94305 | 9.822 |
| 0.51795 | 0.915 | 9.966 |
| 0.408 | 0.89295 | 9.794 |
| 0.29295 | 0.795 | 10.055 |
| 0.432 | 0.81405 | 9.789 |
| 0.48 | 0.951 | 9.779 |
| 0.46995 | 0.915 | 10.05 |
| 0.44205 | 0.927 | 9.99 |
| 0.477 | 0.98595 | 10.055 |
| 0.60195 | 1.1209 | 9.696 |
| 0.52305 | 0.95805 | 9.849 |
| 0.525 | 0.903 | 9.5329 |
| 0.339 | 0.83805 | 10.208 |
| 0.324 | 0.91905 | 9.902 |
| 0.19695 | 0.94305 | 9.696 |
| 0.40605 | 1.0339 | 10.019 |
| 0.228 | 0.852 | 9.7601 |
| 0.444 | 0.95295 | 9.7241 |
| 0.564 | 0.948 | 10.062 |
| 0.40305 | 1.065 | 9.897 |
| 0.408 | 1.008 | 10.062 |
| 0.30495 | 0.975 | 9.801 |
| 0.31695 | 0.86895 | 9.971 |
| 0.513 | 1.054 | 9.923 |
| 0.40095 | 0.97695 | 9.8801 |
| 0.384 | 0.94095 | 9.945 |
| 0.375 | 0.82605 | 9.9641 |
| 0.48 | 0.93105 | 9.7151 |
| 0.396 | 0.99405 | 9.7721 |
| 0.40305 | 0.95805 | 10.17 |
| 0.33405 | 0.951 | 9.8629 |
| 0.288 | 0.888 | 9.7751 |
| 0.44895 | 0.93405 | 9.971 |
| 0.49695 | 1.0061 | 9.8321 |
| 0.54195 | 1.0271 | 9.842 |
| 0.45795 | 0.9 | 9.9281 |
| 0.48495 | 0.89595 | 9.899 |
| 0.44205 | 0.91905 | 9.9731 |
| 0.39795 | 0.972 | 9.983 |
| 0.40305 | 0.95505 | 9.9281 |
| 0.279 | 0.912 | 9.87 |
| 0.47295 | 1.037 | 9.576 |
| 0.64305 | 1.128 | 9.808 |
| 0.52095 | 1.0511 | 9.9641 |
| 0.21195 | 0.99795 | 9.837 |

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|---|---|---|
| 0.16905 | 0.89595 | 10.196 |
| 0.444 | 1.0579 | 9.6289 |
| 0.64695 | 1.2041 | 10.038 |
| 0.762 | 1.341 | 9.8059 |
| 0.36705 | 1.171 | 9.6431 |
| 0.15405 | 0.91005 | 10.045 |
| 0.25995 | 1.0699 | 9.777 |
| 0.50595 | 1.1921 | 10.069 |
| 0.65505 | 1.247 | 9.5419 |
| 0.549 | 1.077 | 9.8629 |
| 0.525 | 1.0579 | 9.72 |
| 0.29295 | 0.99405 | 9.753 |
| 0.43695 | 1.1059 | 10.23 |
| 0.35805 | 1.159 | 9.942 |
| 0.432 | 1.109 | 10.143 |
| 0.04695 | 1.049 | 9.7871 |
| 0.16395 | 1.1111 | 9.839 |
| 0.42 | 1.3219 | 9.277 |
| 0.41295 | 1.0391 | 10.452 |
| 0.219 | 1.305 | 9.734 |
| -0.04305 | 1.025 | 9.7751 |
| 0.13995 | 1.154 | 9.923 |
| 0.12105 | 1.149 | 9.844 |
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| 0.26895 | 1.2499 | 9.5419 |
| 0.14505 | 1.1449 | 9.767 |
| 0.51105 | 1.135 | 10.198 |
| 0.63105 | 1.336 | 9.7721 |
| 0.516 | 1.37 | 9.717 |
| 0.552 | 1.3031 | 9.969 |
| 0.34095 | 1.255 | 9.9919 |
| 0.40095 | 1.331 | 9.755 |
| 0.58005 | 1.3031 | 9.432 |
| 0.62595 | 1.3579 | 10.359 |
| 0.66705 | 1.283 | 10.567 |
| -0.01005 | 1.0631 | 10.091 |
| 0.114 | 1.3841 | 8.898 |
| 0.31905 | 1.389 | 9.193 |
| 0.36705 | 1.35 | 9.5351 |
| 0.492 | 1.336 | 10.146 |
| 0.33105 | 1.314 | 9.966 |
| 0.34605 | 1.2739 | 10.124 |
| 0.324 | 1.2911 | 9.7391 |
| 0.62805 | 1.343 | 9.614 |
| 0.73395 | 1.4509 | 9.794 |
| 0.588 | 1.317 | 9.8179 |
| 0.504 | 1.314 | 9.5471 |
| 0.42495 | 1.3841 | 10.191 |
| 0.444 | 1.405 | 10.107 |
| 0.39405 | 1.343 | 9.846 |
| 0.32895 | 1.293 | 9.444 |
| 0.55905 | 1.348 | 9.614 |
| 0.327 | 1.2349 | 9.77 |
| 0.31905 | 1.221 | 9.952 |
| 0.39405 | 1.305 | 9.902 |
| 0.29805 | 1.3339 | 9.8681 |
| 0.37695 | 1.4201 | 9.894 |
| 0.21405 | 1.269 | 10.048 |
| 0.135 | 1.221 | 9.504 |
| 0.39795 | 1.324 | 9.686 |
| 0.564 | 1.377 | 9.878 |
| 0.36495 | 1.281 | 10.026 |
| 0.279 | 1.19 | 9.8921 |
| 0.25695 | 1.202 | 9.813 |

| | | |
|---|---|---|
| 0.37695 | 1.224 | 9.878 |
| 0.49695 | 1.348 | 9.655 |
| 0.40095 | 1.3579 | 10.038 |
| 0.49395 | 1.37 | 9.576 |
| 0.36705 | 1.305 | 9.796 |
| 0.43005 | 1.319 | 9.911 |
| 0.22395 | 1.161 | 9.899 |
| 0.29595 | 1.264 | 9.799 |
| 0.38205 | 1.37 | 9.911 |
| 0.35295 | 1.37 | 9.887 |
| 0.597 | 1.4681 | 9.6289 |
| 0.23595 | 1.207 | 9.9131 |
| 0.41805 | 1.2521 | 9.667 |
| 0.243 | 1.171 | 10.036 |
| 0.40605 | 1.312 | 9.65 |
| 0.53505 | 1.3 | 10.079 |
| 0.47295 | 1.3339 | 9.822 |
| 0.39795 | 1.233 | 9.861 |
| 0.09705 | 1.245 | 9.7751 |
| 0.111 | 1.207 | 9.8921 |
| 0.276 | 1.312 | 9.894 |
| 0.444 | 1.394 | 9.9281 |
| 0.351 | 1.317 | 9.7721 |
| 0.387 | 1.269 | 9.698 |
| 0.25995 | 1.245 | 9.799 |
| 0.43005 | 1.3789 | 9.8179 |
| 0.31695 | 1.2859 | 10.004 |
| 0.276 | 1.312 | 9.7361 |
| 0.267 | 1.288 | 9.9949 |
| 0.27195 | 1.329 | 9.66 |
| 0.27405 | 1.3219 | 9.72 |
| 0.315 | 1.329 | 9.89 |
| 0.336 | 1.372 | 9.779 |
| 0.3 | 1.3219 | 9.861 |
| 0.372 | 1.377 | 9.753 |
| 0.22605 | 1.259 | 10.007 |
| 0.31695 | 1.326 | 9.7841 |
| 0.22395 | 1.271 | 9.734 |
| 0.35295 | 1.348 | 9.9041 |
| 0.37905 | 1.434 | 9.7361 |
| 0.22095 | 1.3579 | 10.206 |
| 0.336 | 1.338 | 9.648 |
| 0.29805 | 1.319 | 9.801 |
| 0.264 | 1.355 | 9.8509 |
| 0.372 | 1.41 | 9.712 |
| 0.255 | 1.365 | 9.7871 |
| 0.33405 | 1.3909 | 9.7241 |
| 0.183 | 1.353 | 10.06 |
| 0.28605 | 1.377 | 9.9761 |
| 0.075 | 1.317 | 9.669 |
| 0.37905 | 1.41 | 9.696 |
| 0.28395 | 1.425 | 9.878 |
| 0.41505 | 1.484 | 9.83 |
| 0.10605 | 1.353 | 9.957 |
| 0.26895 | 1.473 | 9.7871 |
| 0.25695 | 1.4149 | 9.777 |
| 0.45405 | 1.465 | 9.7601 |
| 0.28095 | 1.417 | 9.7031 |
| 0.30495 | 1.3789 | 9.87 |
| 0.22395 | 1.429 | 9.813 |
| 0.31005 | 1.4269 | 9.794 |
| 0.363 | 1.482 | 9.947 |
| 0.291 | 1.489 | 9.83 |
| 0.303 | 1.4801 | 9.5621 |

| | | |
|---|---|---|
| 0.34605 | 1.458 | 9.566 |
| 0.327 | 1.523 | 10.033 |
| 0.375 | 1.535 | 9.767 |
| 0.22395 | 1.511 | 10.079 |
| 0.228 | 1.583 | 9.729 |
| 0.32205 | 1.501 | 9.633 |
| 0.327 | 1.4509 | 9.849 |
| 0.18495 | 1.4921 | 9.966 |
| 0.33405 | 1.53 | 9.6881 |
| 0.42195 | 1.5491 | 9.779 |
| 0.19695 | 1.4749 | 9.7721 |
| 0.24795 | 1.489 | 9.729 |
| 0.21195 | 1.511 | 9.935 |
| 0.36705 | 1.563 | 10.009 |
| 0.33105 | 1.547 | 9.6761 |
| 0.34095 | 1.575 | 10.019 |
| 0.23595 | 1.5251 | 9.7391 |
| 0.12795 | 1.4801 | 9.5741 |
| 0.327 | 1.4959 | 9.846 |
| 0.33405 | 1.528 | 10.194 |
| 0.183 | 1.638 | 9.456 |
| 0.41295 | 1.511 | 9.511 |
| 0.07995 | 1.1801 | 11.027 |
| 0.40605 | 1.698 | 9.6169 |
| -0.036 | 1.5041 | 9.777 |
| 0.63105 | 1.5611 | 10.081 |
| 0.18105 | 1.523 | 9.4751 |
| 0.17295 | 1.4201 | 9.77 |
| 0.135 | 1.422 | 10.131 |
| 0.18495 | 1.547 | 9.5831 |
| 0.17595 | 1.484 | 9.827 |
| 0.19305 | 1.4959 | 9.815 |
| 0.18105 | 1.5041 | 9.523 |
| 0.17595 | 1.501 | 9.9281 |
| 0.18495 | 1.355 | 9.918 |
| 0.54495 | 1.425 | 9.368 |
| 0.28605 | 1.398 | 10.38 |
| -0.06705 | 1.3909 | 9.621 |
| 0.228 | 1.281 | 9.6739 |
| 0.18795 | 1.4081 | 9.9371 |
| 0.255 | 1.331 | 10.119 |
| 0.31905 | 1.367 | 9.351 |
| -0.15405 | 1.08 | 9.9611 |
| 0.05895 | 1.049 | 9.5951 |
| 0.08505 | 1.0099 | 10.093 |
| 0.17595 | 1.116 | 10.256 |
| 0.16095 | 1.13 | 9.935 |
| 0.018 | 1.3 | 9.799 |
| -0.47205 | 1.077 | 10.203 |
| -0.45795 | 1.02 | 9.447 |
| -0.40695 | 0.82605 | 9.2981 |
| -0.252 | 0.95805 | 9.03 |
| -0.15105 | 1.1209 | 10.502 |
| -0.05805 | 1.159 | 11.451 |
| -0.32595 | 1.044 | 9.9131 |
| -0.52695 | 0.79005 | 9.5621 |
| -0.44595 | 0.819 | 9.3581 |
| 0.018 | 0.99405 | 9.935 |
| 0.24 | 1.0391 | 9.89 |
| 0.04695 | 0.82395 | 10.019 |
| -0.156 | 0.73005 | 9.4631 |
| 0.07305 | 0.82095 | 9.717 |
| -0.063 | 0.93405 | 10.012 |
| -0.10605 | 0.94605 | 10.141 |

| | | |
|---|---|---|
| -0.10995 | 0.87195 | 10.086 |
| 0.042 | 0.76395 | 10.299 |
| 0.267 | 0.795 | 10.036 |
| 0.27195 | 0.71805 | 9.782 |
| 0.54 | 0.903 | 9.346 |
| 0.408 | 0.82095 | 10.153 |
| 0.315 | 0.78105 | 9.9641 |
| 0.25005 | 0.666 | 10.019 |
| 0.42495 | 0.61995 | 9.7391 |
| 0.252 | 0.38595 | 10.119 |
| 0.46605 | 0.34005 | 10.141 |
| 0.77895 | 0.441 | 9.506 |
| 1.0879 | 0.69405 | 9.3821 |
| 1.4501 | 0.94605 | 9.5471 |
| 1.452 | 0.98205 | 9.717 |
| 1.155 | 0.795 | 10.136 |
| 0.68805 | 0.66105 | 10.124 |
| 0.504 | 0.615 | 10.004 |
| 0.477 | 0.64695 | 9.875 |
| 0.70995 | 0.74205 | 9.808 |
| 0.68805 | 0.66105 | 10.309 |
| 0.777 | 0.48795 | 10.134 |
| 0.43695 | 0.37395 | 9.293 |
| 0.42495 | 0.42105 | 9.305 |
| 0.54705 | 0.78105 | 9.732 |
| 0.52995 | 1.042 | 9.59 |
| 0.71895 | 1.4959 | 10.27 |
| 0.18105 | 0.936 | 10.115 |
| 0.147 | 0.807 | 10.385 |
| 0.303 | 0.678 | 9.93 |
| 0.00105 | 0.28995 | 10.854 |
| 0.62595 | 0.38805 | 9.006 |
| 0.906 | 0.675 | 9.554 |
| 1.071 | 0.74505 | 10.486 |
| 1.435 | 1.271 | 10.756 |
| 1.143 | 1.4801 | 10.246 |
| 0.489 | 1.5319 | 9.6169 |
| 0.24495 | 1.147 | 9.825 |
| 0.60705 | 1.226 | 9.248 |
| 0.774 | 1.025 | 8.7 |
| 0.765 | 1.226 | 8.032 |
| 0.21405 | 1.1059 | 9.0521 |
| -0.13695 | 1.183 | 10.332 |
| 0.41505 | 1.8769 | 10.273 |
| 0.477 | 1.8199 | 9.511 |
| 0.23805 | 1.257 | 10.048 |
| 0.18105 | 1.195 | 9.4901 |
| 0.03495 | 1.0991 | 9.906 |
| 0.075 | 1.324 | 9.399 |
| 0.585 | 0.86205 | 9.7841 |
| 0.19005 | 0.56805 | 9.846 |
| -0.132 | 0.309 | 10.921 |
| -0.75495 | 0.63705 | 9.0559 |
| 0.10605 | 0.759 | 10.093 |
| 0.29595 | 0.888 | 10.311 |
| 0.44205 | 0.87405 | 10.467 |
| 0.81 | 1.161 | 10.569 |
| 0.621 | 0.94305 | 10.143 |
| 0.501 | 0.83595 | 9.119 |
| 0.276 | 0.498 | 9.9371 |
| 0.32895 | 0.546 | 9.7099 |
| 0.15195 | 0.53595 | 9.5951 |
| 0.051 | 0.49995 | 9.9611 |
| 0.30495 | 0.68505 | 9.7241 |

| | | |
|---|---|---|
| 0.34305 | 0.76395 | 9.473 |
| 0.30495 | 0.60105 | 10.335 |
| 0.46605 | 0.79305 | 10.186 |
| 0.40305 | 0.77595 | 10.368 |
| 0.44205 | 0.888 | 10.153 |
| 0.501 | 0.864 | 9.83 |
| 0.51795 | 0.80895 | 9.753 |
| 0.501 | 0.71595 | 9.38 |
| 0.576 | 0.81195 | 10.057 |
| -0.48405 | 1.176 | 9.0109 |
| 0.60405 | 0.94095 | 10.548 |
| 0.08205 | 0.81405 | 9.684 |
| 0.36705 | 0.891 | 9.4991 |
| 0.40605 | 0.855 | 10.024 |
| 0.40605 | 0.84 | 10.292 |
| 0.312 | 0.98595 | 10.457 |
| 0.468 | 1.018 | 9.4009 |
| 0.46995 | 0.87405 | 10.249 |
| 0.46995 | 0.867 | 9.684 |
| 0.624 | 0.912 | 9.6311 |
| 0.31905 | 0.88605 | 9.72 |
| 0.324 | 0.924 | 10.052 |
| 0.23295 | 0.94095 | 10.117 |
| 0.255 | 0.99795 | 9.605 |
| 0.35505 | 1.0271 | 9.7721 |
| 0.492 | 0.98205 | 9.645 |
| 0.25995 | 0.92895 | 9.894 |
| 0.26205 | 0.89595 | 10.174 |
| 0.396 | 0.97005 | 10.115 |
| 0.327 | 0.99405 | 9.911 |
| 0.42195 | 1.0459 | 9.822 |
| 0.32205 | 0.98895 | 9.89 |
| 0.46605 | 0.936 | 10.06 |
| 0.291 | 0.93105 | 9.7721 |
| 0.32205 | 0.972 | 9.849 |
| 0.516 | 1.056 | 9.777 |
| 0.372 | 1.032 | 9.856 |
| 0.49395 | 1.0099 | 9.755 |
| 0.31005 | 0.867 | 10.012 |
| 0.31005 | 0.96705 | 9.791 |
| 0.384 | 1.008 | 9.9281 |
| 0.41805 | 1.0751 | 9.9761 |
| 0.18495 | 0.98895 | 9.803 |
| 0.16395 | 0.81405 | 9.8629 |
| 0.35805 | 0.927 | 10.031 |
| 0.34605 | 1.0099 | 9.7391 |
| 0.30705 | 0.95805 | 10.014 |
| 0.348 | 1.003 | 9.9041 |
| 0.39105 | 1.0511 | 9.911 |
| 0.54 | 1.104 | 9.971 |
| 0.41295 | 1.042 | 9.9761 |
| -0.04095 | 0.915 | 8.7431 |
| 0.54495 | 0.81195 | 10.385 |
| 0.24795 | 0.891 | 9.902 |
| 0.324 | 0.87405 | 9.878 |
| 0.32895 | 0.888 | 9.952 |
| 0.30705 | 0.90705 | 9.794 |
| 0.48 | 1.0751 | 10.479 |
| 0.39795 | 1.08 | 9.471 |
| 0.35295 | 0.89595 | 10.141 |
| 0.28395 | 0.85005 | 9.621 |
| 0.54705 | 0.86205 | 9.9371 |
| 0.504 | 0.972 | 9.9611 |
| 0.537 | 1.032 | 9.7151 |

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  0.525   1.02   10.093
-0.75495   1.3579   8.807
-0.17805   0.723   10.876
  1.038   0.67995   9.602
  0.207   1.176   9.839
 0.61905   1.0991   9.4301
 0.42495   0.95805   9.873
 0.49695   1.025   9.782
  0.279   0.89295   9.8509
 0.27195   0.88095   9.9919
  0.315   1.0061   10.155
  0.207   0.98205   9.7721
  0.372   1.042   9.461
 0.42705   1.003   10.213
  0.48   1.109   9.906
 0.25005   1.02   9.528
  0.372   1.101   7.7801
 0.41505   -0.01995   11.819
 0.53505   0.69195   10.289
  0.126   0.867   9.329
 0.64005   1.02   9.9761
 0.61905   1.128   9.902
  0.492   1.001   9.708
  0.396   0.96495   9.942
  0.267   0.83295   10.036
 0.48495   1.032   9.554
 0.25695   0.89805   10.06
 0.26895   1.0219   9.767
  0.324   0.96   10.086
 0.31905   1.054   9.602
 0.49395   1.08   9.5711
 0.57795   1.049   10.143
  0.456   0.94095   10.268
  0.102   1.032   9.667
  0.135   1.013   9.461
 0.34605   0.97005   10.253
 0.39405   1.0579   9.777
 0.29595   1.0579   9.791
 0.42495   1.03   9.921
 0.27195   1.0099   9.782
  0.468   1.073   9.777
  0.42   0.984   10.043
  0.339   1.008   9.5711
 0.17805   0.903   9.753
  0.303   0.996   9.9611
  0.324   1.068   9.717
 0.60705   1.0751   9.885
 0.38205   1.0271   9.7721
  0.24   0.83595   10.27
  0.147   0.79005   9.813
  0.375   0.89595   9.935
  0.657   1.125   9.834
 0.51105   1.1231   9.8201
 0.40305   1.02   9.827
 0.25005   0.98895   9.8921
 0.22095   0.951   9.894
 0.60195   1.178   9.334
 0.31905   0.87195   9.93
 0.40995   0.92895   9.89
 0.33105   0.82095   10.076
 0.31695   0.90495   9.873
 0.46095   1.0339   9.789
  0.327   0.91905   9.9761
 0.28605   0.92895   9.9731
```

| | | |
|---|---|---|
| 0.22095 | 0.939 | 9.7271 |
| 0.55395 | 1.056 | 9.822 |
| 0.42705 | 0.99405 | 9.822 |
| 0.40605 | 0.98595 | 9.6739 |
| 0.123 | 0.78495 | 9.8509 |
| 0.207 | 0.73695 | 10.141 |
| 0.159 | 0.71805 | 9.9251 |
| 0.102 | 0.77595 | 9.767 |
| -0.024 | 0.71805 | 10.194 |
| 0.12105 | 0.82095 | 9.902 |
| 0.051 | 0.75705 | 10.143 |
| 0.17295 | 0.89595 | 9.803 |
| 0.23805 | 0.88095 | 9.7601 |
| 0.528 | 0.91905 | 9.753 |
| 0.159 | 0.80895 | 9.794 |
| 0.303 | 0.88605 | 9.8801 |
| -0.03405 | 0.76605 | 9.988 |
| -0.22995 | 0.72795 | 10.055 |
| -0.12495 | 0.81405 | 9.8179 |
| 0.07995 | 0.83805 | 9.808 |
| 0.19995 | 0.88395 | 9.779 |
| 0.32895 | 0.88395 | 10.129 |
| 0.30705 | 0.96495 | 9.839 |
| 0.07995 | 0.84 | 10.009 |
| 0.41295 | 1.077 | 9.9949 |
| 0.279 | 1.0459 | 10.409 |
| 0.11595 | 1.255 | 9.2621 |
| -0.07005 | 0.975 | 10.014 |
| -0.07695 | 0.975 | 10.203 |
| 0.042 | 1.056 | 10.019 |
| -0.192 | 0.96 | 9.7361 |
| 0.03 | 1.0391 | 10.72 |
| -0.273 | 1.271 | 9.2651 |
| -0.08895 | 0.795 | 9.7271 |
| -0.309 | 0.855 | 9.837 |
| 0.147 | 1.001 | 10.028 |
| 0.04695 | 1.03 | 9.878 |
| 0.21195 | 1.14 | 9.83 |
| 0.063 | 0.975 | 10.038 |
| 0.087 | 1.104 | 9.5351 |
| -0.01005 | 1.0391 | 9.89 |
| 0.039 | 1.14 | 9.9949 |
| 0.066 | 1.1111 | 10.021 |
| -0.096 | 1.0511 | 9.6289 |
| -0.01995 | 0.951 | 9.942 |
| -0.003 | 0.93405 | 9.645 |
| -0.00795 | 1.1209 | 9.911 |
| -0.62295 | 1.314 | 9.432 |
| 0.20895 | 1.042 | 10.677 |
| -0.822 | 1.2859 | 9.6289 |
| 0.063 | 1.224 | 9.669 |
| 0.36495 | 1.2161 | 9.906 |
| 0.027 | 1.0339 | 9.686 |
| 0.10605 | 0.98205 | 10.127 |
| 0.20205 | 1.135 | 9.9611 |
| 0.04395 | 1.113 | 9.866 |
| 0.38895 | 1.135 | 10.383 |
| -0.21795 | 1.135 | 9.2411 |
| -0.23295 | 0.94605 | 10.222 |
| 0.07005 | 0.92895 | 9.437 |
| 0.20205 | 1.2 | 9.945 |
| 0.02295 | 1.128 | 9.8059 |
| 0.04905 | 1.113 | 9.971 |
| 0.12105 | 1.164 | 9.66 |

| | | |
|---|---|---|
| 0.078 | 1.109 | 9.897 |
| 0.135 | 1.13 | 10.06 |
| 0.07995 | 1.068 | 9.782 |
| -0.09405 | 1.061 | 9.899 |
| -0.24 | 0.99405 | 10.021 |
| 0.16905 | 1.1681 | 9.801 |
| 0.03195 | 1.0751 | 9.834 |
| 0.171 | 1.0991 | 9.7871 |
| 0.14505 | 1.173 | 9.708 |
| 0.066 | 1.1179 | 9.952 |
| 0.09705 | 1.097 | 9.813 |
| -0.039 | 0.99105 | 10.055 |
| 0.02295 | 1.097 | 9.751 |
| 0.03495 | 1.03 | 9.89 |
| 0.03495 | 1.018 | 10.179 |
| 0.12795 | 1.0511 | 10.222 |
| 0.042 | 1.109 | 9.5471 |
| 0.17595 | 1.0991 | 10.012 |
| 0.147 | 1.173 | 9.87 |
| -0.09105 | 1.032 | 9.7721 |
| -0.099 | 1.0459 | 10.038 |
| 0.042 | 1.149 | 9.947 |
| -0.05505 | 1.1111 | 9.7361 |
| 0.114 | 1.2349 | 9.681 |
| 0.14895 | 1.188 | 9.906 |
| -0.084 | 1.0939 | 10.007 |
| -0.13905 | 0.98595 | 9.921 |
| -0.01695 | 1.089 | 9.7099 |
| 0.00105 | 1.1329 | 9.842 |
| 0.135 | 1.2041 | 9.899 |
| 0.03495 | 1.173 | 9.957 |
| -0.048 | 1.1561 | 9.921 |
| 0.00795 | 1.101 | 9.827 |
| 0.00105 | 1.1179 | 9.782 |
| 0.18795 | 1.257 | 9.6 |
| 0.078 | 1.2671 | 9.957 |
| 0.00105 | 1.2041 | 10.184 |
| 0.042 | 1.178 | 9.803 |
| 0.02295 | 1.159 | 9.947 |
| 0.138 | 1.259 | 9.684 |
| 0.07995 | 1.195 | 9.89 |
| 0.099 | 1.214 | 9.921 |
| 0.01995 | 1.238 | 10.103 |
| 0.042 | 1.224 | 9.9611 |
| 0.30705 | 1.2859 | 9.7481 |
| 0.315 | 1.264 | 9.971 |
| 0.195 | 1.3 | 9.5621 |
| -0.17805 | 1.0699 | 9.822 |
| -0.084 | 1.264 | 9.911 |
| -0.13695 | 1.341 | 10.198 |
| -0.087 | 1.353 | 9.5419 |
| 0.09 | 1.231 | 9.894 |
| 0.14895 | 1.2911 | 9.897 |
| 0.18495 | 1.255 | 10.165 |
| 0.18795 | 1.255 | 9.492 |
| 0.13005 | 1.3339 | 9.645 |
| -0.05295 | 1.247 | 9.94 |
| -0.06495 | 1.173 | 9.933 |
| -0.228 | 1.085 | 9.902 |
| -0.024 | 1.2671 | 9.899 |
| 0.19995 | 1.214 | 10.294 |
| 0.42 | 1.1179 | 9.4849 |
| 0.20895 | 1.0339 | 9.5329 |
| 0.21405 | 1.2349 | 10.146 |

| | | |
|---|---|---|
| 0.03 | 1.221 | 10.009 |
| -0.32805 | 1.13 | 9.834 |
| -0.07005 | 1.161 | 10.268 |
| 0.39405 | 1.0391 | 10.004 |
| 0.456 | 1.104 | 9.2981 |
| 0.17805 | 1.154 | 9.7241 |
| 0.00105 | 0.972 | 9.99 |
| -0.10305 | 0.95295 | 9.6311 |
| 0.04905 | 1.0871 | 9.6911 |
| 0.23295 | 1.312 | 10.32 |
| 0.35505 | 1.202 | 10.191 |
| 0.35295 | 1.0579 | 9.54 |
| 0.33105 | 1.135 | 9.6431 |
| 0.10395 | 0.98205 | 10.146 |
| -0.027 | 1.025 | 9.684 |
| -0.273 | 0.924 | 10.292 |
| -0.015 | 1.0099 | 10.143 |
| 0.099 | 0.95295 | 9.741 |
| 0.51795 | 1.0631 | 9.7481 |
| 0.03 | 1.03 | 9.626 |
| -0.096 | 1.056 | 9.473 |
| -0.477 | 0.903 | 9.875 |
| -0.20595 | 1.0459 | 9.9641 |
| 0.075 | 1.164 | 10.036 |
| 0.363 | 1.247 | 9.878 |
| 0.123 | 1.0339 | 9.846 |
| 0.09705 | 0.95505 | 9.624 |
| -0.13395 | 0.852 | 9.193 |
| -0.27105 | 0.63 | 10.426 |
| -0.56295 | 0.64395 | 11.115 |
| -0.25395 | 1.1449 | 9.65 |
| -0.39495 | 1.125 | 9.873 |
| 0.19695 | 1.271 | 10.074 |
| 0.36495 | 1.154 | 10.148 |
| 0.58005 | 0.93405 | 10.028 |
| 0.303 | 0.78795 | 9.638 |
| -0.087 | 0.84 | 9.664 |
| -0.12 | 1.065 | 10.079 |
| 0.015 | 1.185 | 10.222 |
| 0.255 | 1.3841 | 9.653 |
| 0.58005 | 1.657 | 9.205 |
| 0.22395 | 1.1921 | 9.9589 |
| -0.048 | 0.975 | 9.554 |
| -0.132 | 0.984 | 10.057 |
| -0.003 | 1.3841 | 9.3701 |
| 0.18795 | 1.647 | 9.681 |
| 0.39795 | 1.693 | 10.174 |
| 0.46305 | 1.915 | 10.696 |
| 0.40995 | 1.695 | 9.8321 |
| -0.168 | 1.635 | 8.209 |
| 0.18105 | 1.4441 | 9.581 |
| 0.477 | 1.7021 | 9.6761 |
| 0.46305 | 1.554 | 10.055 |
| 0.19695 | 1.681 | 10.237 |
| 0.28605 | 1.683 | 9.954 |
| 0.21195 | 1.7599 | 9.6 |
| 0.17295 | 1.633 | 9.552 |
| 0.327 | 1.6541 | 9.0851 |
| 0.48495 | 1.3789 | 10.127 |
| -0.261 | 1.595 | 9.3889 |
| 0.54705 | 1.5919 | 10.21 |
| 0.16095 | 1.5491 | 9.897 |
| 0.33105 | 1.425 | 9.698 |
| 0.159 | 1.293 | 9.648 |

| | | |
|---|---|---|
| 0.41805 | 1.372 | 9.605 |
| 0.504 | 1.47 | 9.782 |
| 0.375 | 1.5319 | 9.811 |
| 0.21405 | 1.37 | 9.942 |
| 0.09705 | 1.353 | 9.87 |
| 0.16095 | 1.367 | 9.705 |
| 0.327 | 1.4561 | 9.729 |
| 0.42 | 1.461 | 9.834 |
| 0.38205 | 1.4389 | 9.765 |
| 0.21405 | 1.276 | 10.031 |
| 0.24795 | 1.417 | 9.4751 |
| -0.05505 | 1.314 | 9.5351 |
| 0.26205 | 1.563 | 10.287 |
| 0.28605 | 1.9009 | 10.34 |
| 0.67395 | 1.9661 | 9.557 |
| 0.645 | 1.255 | 9.966 |
| 0.69795 | 1.0459 | 8.9441 |
| -0.45795 | 1.128 | 10.22 |
| -0.58905 | 1.154 | 10.704 |
| 0.255 | 1.365 | 9.5501 |
| 0.408 | 1.6421 | 9.4511 |
| 0.351 | 1.348 | 9.9949 |
| 0.018 | 1.221 | 8.63 |
| -0.69495 | 1.056 | 9.9161 |
| -0.40305 | 1.2911 | 10.366 |
| -0.17805 | 1.1561 | 11.01 |
| -0.19695 | 1.1179 | 10.093 |
| 0.288 | 1.221 | 9.234 |
| 0.753 | 1.4749 | 9.494 |
| 0.73605 | 1.753 | 9.2141 |
| -0.05505 | 1.915 | 9.87 |
| -0.30405 | 1.449 | 10.694 |
| -0.474 | 0.77805 | 10.675 |
| 0.54495 | 0.963 | 9.767 |
| 0.501 | 1.0991 | 9.231 |
| 0.75495 | 1.54 | 8.625 |
| 0.34305 | 1.975 | 9.0761 |
| -0.43395 | 1.88 | 10.091 |
| -0.80205 | 1.669 | 10.136 |
| -0.834 | 1.312 | 10.474 |
| -0.228 | 1.0871 | 10.663 |
| 0.126 | 1.101 | 9.751 |
| 0.33405 | 1.154 | 9.3559 |
| 0.726 | 1.5611 | 9.102 |
| 0.71505 | 1.5731 | 9.696 |
| 0.37005 | 1.5199 | 9.9949 |
| 0.015 | 1.331 | 10.397 |
| -0.17505 | 1.276 | 10.244 |
| 0.09705 | 1.3789 | 9.32 |
| 0.61395 | 1.2671 | 10.361 |
| 0.78195 | 1.13 | 10.024 |
| 0.71895 | 1.305 | 8.858 |
| 0.348 | 1.542 | 9.138 |
| -0.11805 | 1.724 | 9.071 |
| -0.228 | 1.712 | 9.404 |
| -0.51795 | 1.092 | 10.883 |
| -0.84795 | 0.44505 | 11.465 |
| -0.54405 | 0.71805 | 9.9491 |
| -0.23505 | 1.367 | 9.186 |
| 0.288 | 1.638 | 9.619 |
| 0.384 | 1.08 | 10.548 |
| 0.432 | 1.1231 | 9.2291 |
| 0.17295 | 1.365 | 9.5261 |
| -0.32595 | 1.1059 | 9.049 |

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|---|---|---|
| -1.068 | 0.73695 | 10.392 |
| -1.0511 | 0.82095 | 9.7751 |
| -0.393 | 0.76395 | 10.852 |
| 0.46605 | 1.255 | 10.174 |
| 0.70305 | 1.2979 | 9.272 |
| 0.35295 | 0.879 | 9.854 |
| -0.051 | 0.71805 | 9.866 |
| -0.09405 | 0.92895 | 9.7721 |
| -0.039 | 1.0991 | 10.014 |
| 0.15195 | 1.101 | 9.866 |
| 0.06105 | 0.89805 | 9.899 |
| -0.192 | 0.85995 | 9.6881 |
| -0.22995 | 0.828 | 9.59 |
| -0.09105 | 0.89805 | 10.383 |
| 0.00105 | 0.97695 | 10.162 |
| -0.051 | 0.9 | 9.839 |
| 0.02505 | 0.94095 | 9.655 |
| 0.16095 | 0.95505 | 9.952 |
| 0.015 | 0.9 | 9.9491 |
| -0.05295 | 0.915 | 10.045 |
| -0.09105 | 0.97005 | 9.803 |
| -0.22305 | 0.91905 | 9.9491 |
| -0.225 | 0.91695 | 9.717 |
| -0.00795 | 0.98595 | 9.825 |
| -0.09405 | 0.963 | 10.091 |
| 0.03195 | 0.975 | 9.856 |
| -0.075 | 0.96 | 9.842 |
| -0.09405 | 0.94605 | 9.873 |
| -0.04305 | 0.948 | 10.103 |
| -0.024 | 0.972 | 9.7099 |
| -0.11295 | 0.927 | 9.6761 |
| -0.01005 | 0.93405 | 10.136 |
| -0.024 | 0.984 | 9.9161 |
| -0.19905 | 0.867 | 10.086 |
| -0.168 | 1.032 | 9.5419 |
| 0.02505 | 0.963 | 10.134 |
| -0.17505 | 0.92205 | 9.93 |
| -0.14895 | 0.92205 | 9.588 |
| -0.05295 | 0.98595 | 9.765 |
| 0.147 | 1.0511 | 10.057 |
| 0.078 | 1.0751 | 9.765 |
| -0.04095 | 0.95295 | 9.789 |
| -0.13005 | 0.92205 | 9.837 |
| -0.15405 | 0.88605 | 10.143 |
| 0.06105 | 0.95295 | 9.799 |
| 0.04395 | 0.99105 | 9.743 |
| 0.147 | 1.008 | 10.107 |
| 0.03495 | 1.013 | 9.8681 |
| 0.102 | 0.92895 | 9.8681 |
| -0.08205 | 0.864 | 9.983 |
| 0.04395 | 0.95295 | 9.971 |
| 0.03495 | 0.98895 | 9.858 |
| -0.003 | 1.001 | 9.696 |
| -0.11805 | 0.94305 | 9.952 |
| 0.051 | 1.003 | 10.227 |
| 0.07995 | 1.032 | 9.6881 |
| 0.16905 | 0.99405 | 9.712 |
| 0.00795 | 0.95805 | 10.004 |
| -0.03405 | 0.879 | 9.952 |
| -0.12705 | 0.90705 | 9.6169 |
| -0.012 | 0.97905 | 10.158 |
| 0.15705 | 1.0751 | 9.981 |
| 0.22095 | 0.95505 | 9.875 |
| 0.30705 | 0.79995 | 9.717 |

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| -0.17805 | 0.972 | 9.952 |
| -0.27795 | 1.338 | 9.327 |
| -0.36405 | 0.843 | 10.344 |
| -0.228 | 0.57495 | 10.945 |
| -0.14205 | 0.47205 | 9.923 |
| 0.64695 | 0.55095 | 8.838 |
| 0.23805 | 0.795 | 8.719 |
| 0.114 | 0.891 | 10.019 |
| 0.22605 | 0.94095 | 10.792 |
| 0.43005 | 0.88395 | 10.641 |
| 0.231 | 1.2401 | 9.0971 |
| 0.23295 | 1.0339 | 10.629 |
| 0.384 | 0.79695 | 9.935 |
| 0.01305 | 0.51195 | 9.8801 |
| 0.01995 | 0.65805 | 9.523 |
| 0.34305 | 1.1561 | 9.327 |
| 0.10395 | 1.19 | 9.9611 |
| -0.16605 | 1.054 | 9.945 |
| -0.702 | 0.84495 | 10.318 |
| -0.70905 | 0.903 | 9.7241 |
| 0.03195 | 1.128 | 10.186 |
| 0 | 1.077 | 9.921 |
| 0.645 | 0.96495 | 9.267 |
| 0.348 | 0.70395 | 9.985 |
| 0.066 | 1.097 | 9.645 |
| 0.10905 | 1.2161 | 9.5711 |
| 0.00105 | 1.109 | 9.672 |
| -0.45495 | 0.876 | 10.249 |
| -0.498 | 0.70605 | 10.622 |
| -0.087 | 1.109 | 9.767 |
| 0.19995 | 0.79305 | 9.7841 |
| 0.87 | 1.214 | 9.145 |
| 0.42705 | 1.1449 | 9.7871 |
| 0.099 | 0.96705 | 9.7271 |
| -0.24 | 0.819 | 10.095 |
| -0.23505 | 0.86895 | 10.421 |
| 0.17295 | 1.0871 | 9.942 |
| 0.375 | 1.03 | 9.6071 |
| 0.38895 | 1.003 | 9.779 |
| 0.102 | 1.0819 | 9.7151 |
| 0.07005 | 0.85695 | 10.426 |
| 0.31005 | 0.891 | 9.942 |
| 0.22605 | 1.137 | 9.387 |
| 0.16095 | 1.089 | 9.849 |
| -0.13395 | 0.99795 | 9.794 |
| -0.20595 | 0.771 | 10.17 |
| -0.027 | 0.915 | 10.043 |
| 0.05595 | 0.99405 | 9.705 |
| 0.26205 | 1.0871 | 9.758 |
| -0.01695 | 0.996 | 9.918 |
| 0.01995 | 1.0391 | 9.981 |
| 0.123 | 0.939 | 9.799 |
| 0.10905 | 1.073 | 9.988 |
| 0.027 | 0.98895 | 9.849 |
| 0.003 | 1.0271 | 9.717 |
| -0.00795 | 0.94305 | 10.04 |
| 0.19005 | 1.003 | 9.528 |
| 0.00795 | 1.0459 | 9.942 |
| -0.06 | 1.02 | 10.184 |
| -0.08895 | 0.996 | 9.945 |
| -0.05505 | 0.95505 | 9.94 |
| 0.08205 | 0.96705 | 9.636 |
| 0.099 | 1.018 | 10.021 |
| 0.07305 | 1.025 | 9.7391 |

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| -0.01005 | 0.972 | 9.6911 |
| -0.036 | 1.0871 | 9.782 |
| 0.135 | 0.99105 | 10.498 |
| 0.21195 | 0.915 | 9.935 |
| 0.04905 | 0.91905 | 9.614 |
| 0.10395 | 0.91695 | 9.7151 |
| 0.099 | 1.0151 | 9.6911 |
| -0.18195 | 1.018 | 10.177 |
| -0.19905 | 0.96705 | 10.174 |
| 0.06105 | 0.92895 | 10.141 |
| 0.159 | 0.99795 | 9.66 |
| 0.243 | 1.089 | 9.5021 |
| 0.42195 | 1.317 | 9.471 |
| 0.32895 | 1.2499 | 9.5591 |
| 0.228 | 0.97905 | 10.555 |
| 0.00795 | 0.77595 | 9.957 |
| -0.666 | 0.74205 | 9.751 |
| -0.65595 | 0.80895 | 9.9161 |
| 0.138 | 1.008 | 10 |
| 0.81 | 0.936 | 10.277 |
| 0.15195 | 0.91905 | 9.504 |
| -0.585 | 0.819 | 9.2531 |
| -0.64005 | 0.828 | 9.59 |
| -0.11805 | 0.678 | 10.656 |
| 0.42 | 0.75405 | 10.057 |
| 0.30495 | 0.816 | 9.581 |
| 0.501 | 1.0699 | 10.086 |
| 0.16395 | 1.049 | 9.9371 |
| 0.078 | 0.948 | 9.942 |
| -0.099 | 0.84 | 9.641 |
| 0.015 | 0.85695 | 10.036 |
| -0.02205 | 0.74505 | 10.16 |
| 0.10905 | 0.83595 | 9.6311 |
| 0.12105 | 0.912 | 9.947 |
| 0.23595 | 1.061 | 10.024 |
| 0.17595 | 1.104 | 9.873 |
| 0.10905 | 0.98895 | 9.6791 |
| 0.03 | 0.84495 | 9.9491 |
| -0.01695 | 0.87195 | 9.5419 |
| 0.01095 | 1.003 | 9.909 |
| -0.108 | 1.0819 | 10.222 |
| -0.096 | 1.1561 | 10.031 |
| -0.10095 | 1.092 | 9.854 |
| -0.015 | 1.077 | 9.8509 |
| 0.042 | 0.99105 | 9.8801 |
| 0.09195 | 0.924 | 9.777 |
| 0.08505 | 0.94305 | 9.657 |
| 0.06105 | 1.128 | 9.978 |
| -0.003 | 1.147 | 9.801 |
| -0.012 | 1.135 | 9.7601 |
| -0.192 | 1.054 | 9.827 |
| -0.16995 | 1.137 | 10.093 |
| 0.18495 | 1.097 | 11.115 |
| 0.183 | 1.3961 | 9.116 |
| -0.18495 | 1.1111 | 9.765 |
| -0.25905 | 1.1059 | 9.897 |
| -0.144 | 1.1329 | 9.9371 |
| -0.26595 | 1.171 | 9.9761 |
| 0.10605 | 1.226 | 10.208 |
| 0.14895 | 1.2041 | 10.198 |
| 0.09405 | 1.3579 | 8.999 |
| 0.00795 | 1.077 | 9.827 |
| 0.32895 | 1.183 | 10.074 |
| 0.19005 | 1.2859 | 9.9131 |

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| 0.03195 | 1.348 | 9.9161 |
| -0.084 | 1.3961 | 9.83 |
| 0.585 | 1.233 | 9.758 |
| 0.24 | 1.226 | 10.747 |
| -0.288 | 1.458 | 9.346 |
| -0.201 | 1.0699 | 9.8179 |
| -0.027 | 1.3459 | 10.095 |
| 0.14205 | 1.5079 | 9.5951 |
| -0.25905 | 1.247 | 9.732 |
| 0.123 | 1.2791 | 9.933 |
| 0.195 | 1.458 | 10.263 |
| -0.60405 | 0.85695 | 6.54 |
| 0.72195 | 1.3219 | 12.008 |
| -1.178 | 1.5079 | 8.8669 |
| 0.195 | 1.4749 | 9.641 |
| 0.07995 | 1.5251 | 9.3409 |
| 0.147 | 1.367 | 10.155 |
| -0.12 | 1.473 | 9.834 |
| -0.225 | 1.2401 | 9.9949 |
| -0.15405 | 1.2739 | 10.024 |
| -0.10995 | 1.3579 | 9.7 |
| 0.15405 | 1.4201 | 9.822 |
| 0.01095 | 1.35 | 9.746 |
| -0.23295 | 1.2739 | 9.7841 |
| -0.02205 | 1.312 | 9.743 |
| -0.05805 | 1.312 | 10.067 |
| -0.04305 | 1.372 | 9.7841 |
| -0.108 | 1.295 | 9.698 |
| -0.05505 | 1.3841 | 9.837 |
| 0.15705 | 1.473 | 9.377 |
| 0.91605 | 2.073 | 10.265 |
| 1.224 | 2.198 | 10.184 |
| 1.7539 | 1.4869 | 8.683 |
| 1.5551 | 0.963 | 9.176 |
| 1.306 | 1.276 | 9.399 |
| 0.858 | 1.4921 | 9.2119 |
| 0.528 | 1.611 | 9.336 |
| 1.059 | 2.559 | 10.265 |
| 0.98295 | 1.7 | 9.1811 |
| 1.512 | 1.008 | 11.68 |
| 0.96795 | 1.2161 | 7.378 |
| 1.442 | 1.779 | 7.718 |
| 3.209 | 0.891 | 11.154 |
| 3.142 | 1.018 | 9.5711 |
| 2.536 | 0.474 | 8.534 |
| 3.698 | -0.387 | 9.351 |
| 4.179 | -0.597 | 7.577 |
| 6.453 | -1.33 | 8.5369 |
| 7.593 | -2.113 | 8.372 |
| 7.042 | -2.6111 | 3.801 |
| 7.983 | -2.702 | 3.516 |
| 7.947 | -3.629 | 3.6911 |
| 8.642 | -4.112 | 3.147 |
| 8.539 | -3.842 | 4.213 |
| 8.615 | -3.545 | 4.041 |
| 9.432 | -3.767 | 3.2239 |
| 8.613 | -3.87 | 2.791 |
| 9.726 | -3.085 | 2.278 |
| 9.8321 | -3.957 | 2.092 |
| 11.077 | -4.974 | 1.6271 |
| 12.085 | -5.7881 | 3.3319 |
| 12.417 | -3.897 | 4.5941 |
| 8.898 | -3.475 | 3.8081 |
| 9.001 | -6.0281 | 2.6591 |

| | | |
|---|---|---|
| 8.805 | -7.031 | 1.9961 |
| 8.079 | -6.7459 | 2.07 |
| 7.696 | -5.5301 | 2.669 |
| 6.7691 | -5.3479 | 2.5631 |
| 6.6311 | -5.3239 | 2.4289 |
| 6.032 | -5.372 | 2.2279 |
| 5.886 | -5.407 | 1.325 |
| 7.109 | -5.853 | 1.203 |
| 9.525 | -7.1531 | 1.203 |
| 9.786 | -8.376 | 1.359 |
| 7.821 | -4.893 | 3.042 |
| 6.6739 | -2.939 | 3.092 |
| 7.488 | -5.613 | 2.223 |
| 9.1421 | -6.078 | 1.4 |
| 7.495 | -5.3689 | 1.9309 |
| 6.523 | -4.6871 | 2.7281 |
| 6.518 | -4.258 | 1.7711 |
| 7.107 | -4.282 | 1.036 |
| 7.9931 | -3.8801 | 0.70995 |
| 8.838 | -4.4809 | 0.48495 |
| 9.8201 | -6.348 | 1.68 |
| 11.201 | -7.253 | 2.104 |
| 11.345 | -7.2919 | 2.355 |
| 9.5831 | -3.114 | 3.346 |
| 7.047 | -5.735 | 3.48 |
| 8.8331 | -7.61 | 2.561 |
| 8.4169 | -7.419 | 2.9539 |
| 7.2199 | -6.018 | 3.121 |
| 7.188 | -5.5301 | 2.5061 |
| 7.287 | -5.6921 | 2.1469 |
| 6.6109 | -5.563 | 1.6969 |
| 5.661 | -5.771 | 1.06 |
| 5.6269 | -6.729 | 1.1441 |
| 8.5601 | -8.352 | 0.82695 |
| 8.304 | -8.304 | -0.189 |
| 5.7139 | -7.8041 | 1.294 |
| 5.007 | -4.287 | 3.1879 |
| 7.497 | -5.5271 | 2.69 |
| 10.37 | -5.728 | 0.73395 |
| 10.349 | -5.075 | 0.705 |
| 8.553 | -4.857 | 2.2039 |
| 7.2439 | -4.586 | 2.898 |
| 6.444 | -4.555 | 2.4221 |
| 6.36 | -4.407 | 1.416 |
| 7.6601 | -4.488 | 1.7539 |
| 9.506 | -6.351 | 1.764 |
| 11.828 | -6.9881 | 2.4769 |
| 12.753 | -6.609 | 3.3199 |
| 9.9251 | -3.959 | 2.592 |
| 8.742 | -6.71 | 2.2999 |
| 8.86 | -8.235 | 2.444 |
| 7.679 | -7.806 | 2.52 |
| 6.858 | -6.8441 | 2.8361 |
| 6.346 | -6.4009 | 2.113 |
| 6.0971 | -6.186 | 1.742 |
| 5.1529 | -5.604 | 1.9481 |
| 4.301 | -5.822 | 1.764 |
| 5.747 | -7.203 | 1.215 |
| 7.6579 | -8.3741 | 0.59295 |
| 6.643 | -7.857 | 0.81795 |
| 7.583 | -6.368 | 1.7441 |
| 8.527 | -4.4329 | 2.7881 |
| 9.846 | -6.0229 | 2.796 |
| 10.042 | -5.5729 | 2.23 |

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| 8.206 | -5.0119 | 2.5699 |
| 7.473 | -5.12 | 2.479 |
| 6.7961 | -5.309 | 2.5901 |
| 6.48 | -4.902 | 2.46 |
| 6.58 | -4.593 | 2.3479 |
| 7.859 | -4.869 | 1.977 |
| 9.5081 | -5.9531 | 1.977 |
| 10.72 | -6.684 | 3.475 |
| 10.21 | -5.925 | 4.443 |
| 9.774 | -5.735 | 3.411 |
| 10.306 | -8.575 | 2.877 |
| 9.523 | -8.527 | 3.387 |
| 7.902 | -7.1651 | 2.7881 |
| 6.597 | -6.657 | 2.879 |
| 6.042 | -6.183 | 2.487 |
| 5.826 | -5.7619 | 2.1559 |
| 6.1399 | -4.737 | 0.93 |
| 6.9079 | -4.747 | 1.606 |
| 9.511 | -4.6579 | 2.891 |
| 12.506 | -3.918 | 6.171 |
| 12.652 | -1.605 | 7.529 |
| 10.296 | 0.37095 | 8.8031 |
| 9.36 | -0.78705 | 9.815 |
| 6.087 | -1.682 | 6.717 |
| 6.075 | -1.349 | 8.81 |
| 4.931 | -0.753 | 8.07 |
| 2.8931 | 0.78495 | 2.3861 |
| 1.7389 | 0.31395 | 6.636 |
| 1.124 | 0.702 | 6.109 |
| 2.6179 | 1.5971 | 7.069 |
| 1.114 | 1.59 | 8.01 |
| 1.5019 | 2.375 | 9.1691 |
| 1.378 | 1.7839 | 11.35 |
| 0.288 | 1.135 | 13.206 |
| 0.73095 | 1.367 | 13.244 |
| -0.90105 | 2.598 | 6.686 |
| -0.71895 | 1.633 | 11.199 |
| -0.369 | 1.9541 | 8.81 |
| 0.96795 | 1.9939 | 7.479 |
| 0.70305 | 1.872 | 8.199 |
| 1.294 | 2.1671 | 6.126 |
| 0.73095 | 2.698 | 4.795 |
| 1.347 | 2.931 | 7.8161 |
| 1.995 | 2.16 | 13.28 |
| 0.98505 | 2.193 | 12.966 |
| 2.113 | 2.9899 | 9.4009 |
| 2.721 | 0.77295 | 15.514 |
| 0.65505 | 2.327 | 7.986 |
| 0.24 | 1.8199 | 7.7111 |
| 1.959 | 1.7329 | 9.234 |
| 2.01 | 1.851 | 10.04 |
| -0.819 | 3.855 | 7.603 |
| 0.48195 | 2.7889 | 8.57 |
| -2.6599 | 2.751 | 5.994 |
| 1.265 | 2.7731 | 10.067 |
| 0.25695 | 2.1 | 10.61 |
| 0.549 | 1.86 | 10.129 |
| 1.787 | 0.30195 | 14.637 |
| 0.22395 | 0.177 | 12.068 |
| 0.80295 | 1.578 | 8.2639 |
| 1.0879 | 0.91905 | 11 |
| 2.046 | 0.87195 | 11.896 |
| 1.6961 | 1.446 | 7.886 |
| 1.208 | 1.997 | 6.7459 |

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|---|---|---|
| 1.411 | 2.2121 | 7.227 |
| 1.122 | 2.423 | 8.501 |
| 1.548 | 2.995 | 9.4991 |
| 1.423 | 2.375 | 10.304 |
| 1.7779 | 2.306 | 9.609 |
| 1.382 | 2.342 | 10.246 |
| 3.3649 | 2.7611 | 10.708 |
| 1.751 | 2.0351 | 10.586 |
| 2.8451 | 2.392 | 8.283 |
| 3.568 | 2.0539 | 10.548 |
| 1.524 | 2.6149 | 7.412 |
| 1.94 | 3.2681 | 7.0069 |
| 1.423 | 3.0859 | 7.763 |
| 1.821 | 3.2111 | 8.178 |
| 1.2101 | 3.309 | 7.6841 |
| 1.4621 | 3.4211 | 10.179 |
| 1.785 | 3.678 | 11.451 |
| 1.131 | 3.338 | 10.112 |
| 2.4499 | 2.136 | 12.832 |
| 0.68805 | 1.6189 | 10.158 |
| -0.14205 | 2.725 | 6.8179 |
| 1.533 | 1.8011 | 11.056 |
| 2.9 | 1.992 | 10.057 |
| 2.024 | 2.129 | 7.752 |
| 1.67 | 2.184 | 4.864 |
| 1.4329 | 1.9849 | 1.558 |
| 2.323 | 1.224 | 3.1429 |
| 3.755 | -0.27195 | 5.3239 |
| 5.024 | -1.541 | 1.424 |
| 9.528 | -5.611 | 11.539 |
| 8.168 | -7.325 | 2.7761 |
| 8.819 | -9.446 | 7.9961 |
| 8.4049 | -11.752 | 9.377 |
| 9.717 | -12.391 | 9.1661 |
| 12.326 | -8.077 | 9.985 |
| 12.209 | -4.909 | 7.213 |
| 10.291 | -4.761 | 3.626 |
| 8.316 | -4.512 | 2.879 |
| 7.069 | -4.131 | 3.243 |
| 7.6669 | -4.5019 | 3.8899 |
| 9.408 | -5.673 | 4.4329 |
| 10.94 | -9.2119 | 5.8 |
| 10.215 | -5.747 | 6.885 |
| 8.85 | -7.737 | 3.871 |
| 8.141 | -10.246 | 2.384 |
| 9.015 | -8.807 | 3.763 |
| 7.4809 | -8.2279 | 2.8361 |
| 5.381 | -8.01 | 3.021 |
| 4.837 | -7.421 | 2.9989 |
| 3.463 | -6.6311 | 2.484 |
| 3.6949 | -5.745 | 2.0629 |
| 3.959 | -6.2141 | 1.376 |
| 5.843 | -8.1941 | 1.7659 |
| 7.311 | -8.6951 | 2.573 |
| 8.012 | -9.983 | 2.568 |
| 7.018 | -4.234 | 4.0069 |
| 8.91 | -5.4649 | 3.3491 |
| 10.277 | -6.595 | 2.487 |
| 10.263 | -5.439 | 2.702 |
| 7.296 | -4.842 | 3.543 |
| 7.107 | -4.5431 | 2.271 |
| 6.5659 | -5.2931 | 2.1799 |
| 7.4329 | -4.6579 | 2.697 |
| 7.323 | -4.4591 | 2.3531 |

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| 7.7509 | -5.7229 | 2.951 |
| 9.889 | -9.207 | 3.789 |
| 10.969 | -8.3591 | 5.144 |
| 9.489 | -5.077 | 5.609 |
| 9.111 | -8.096 | 2.829 |
| 7.56 | -8.379 | 4.112 |
| 7.014 | -7.438 | 3.162 |
| 6.633 | -6.518 | 2.968 |
| 6.681 | -6.207 | 3.423 |
| 5.5121 | -5.829 | 3.21 |
| 6.872 | -4.795 | 4.3421 |
| 8.443 | -3.971 | 5.846 |
| 8.433 | -4.9429 | 7.9481 |
| 8.522 | -6.231 | 9.131 |
| 6.8921 | -4.67 | 7.2199 |
| 6.075 | -1.816 | 7.7441 |
| 5.378 | -2.041 | 11.139 |
| 3.77 | -2.166 | 7.3639 |
| 3.839 | -1.725 | 8.9441 |
| 3.5231 | -0.50205 | 7.582 |
| 3.992 | 0.52005 | 7.4239 |
| 2.6179 | 0.99405 | 6.021 |
| 3.221 | 1.705 | 6.102 |
| 2.915 | 1.6661 | 7.323 |
| 3.032 | 1.872 | 8.654 |
| 3.181 | 2.459 | 9.494 |
| 2.805 | 1.36 | 12.851 |
| 3.331 | 1.1209 | 12.059 |
| 2.79 | 0.40695 | 12.006 |
| 0.19305 | 1.19 | 9.597 |
| 1.349 | 1.623 | 9.234 |
| 0.324 | 1.413 | 9.514 |
| 1.3751 | 1.817 | 6.923 |
| 1.545 | 2.129 | 7.8259 |
| 1.0159 | 2.7851 | 6.056 |
| 1.926 | 2.866 | 8.6351 |
| 1.1981 | 3.153 | 8.02 |
| 1.6669 | 3.464 | 9.281 |
| 2.266 | 3.476 | 10.864 |
| 1.9001 | 3.455 | 10.158 |
| 2.673 | 3.057 | 8.403 |
| 3.626 | 1.9661 | 12.703 |
| 0.492 | 2.184 | 8.463 |
| 2.055 | 2.895 | 7.1771 |
| 2.5099 | 2.533 | 8.807 |
| 1.593 | 2.586 | 8.381 |
| 1.404 | 3.462 | 7.531 |
| 1.5791 | 3.9169 | 7.395 |
| 1.3729 | 3.771 | 8.412 |
| 1.509 | 3.852 | 8.963 |
| 1.213 | 4.1231 | 9.8681 |
| 1.78 | 4.391 | 12.008 |
| 0.54195 | 4.032 | 7.155 |
| 3.93 | 1.54 | 15.734 |
| -1.0271 | 2.033 | 8.728 |
| 0.195 | 3.395 | 7.395 |
| 1.629 | 2.878 | 8.7671 |
| 2.139 | 2.4851 | 10.988 |
| 2.048 | 2.8609 | 7.8229 |
| 1.078 | 2.7919 | 7.6391 |
| 1.201 | 3.1751 | 6.135 |
| 1.083 | 3.378 | 7.752 |
| 1.2289 | 3.1099 | 9.0679 |
| 2.726 | 3.524 | 10.878 |

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| 4.9879 | 1.147 | 15.339 |
| 1.325 | 1.6159 | 10.886 |
| 0.69795 | 2.868 | 5.314 |
| 3.111 | 2.7439 | 8.484 |
| 2.747 | 2.876 | 7.476 |
| 1.9001 | 2.983 | 7.184 |
| 2.407 | 3.512 | 6.439 |
| 3.65 | 3.713 | 7.4 |
| 4.4591 | 3.699 | 10.457 |
| 3.621 | 4.0009 | 10.45 |
| 3.228 | 5.0569 | 9.099 |
| 3.5299 | 4.6901 | 8.424 |
| 5.1371 | 2.8039 | 11.783 |
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| 2.745 | 3.069 | 7.2851 |
| 4.3849 | 2.713 | 10.498 |
| 3.9011 | 2.0351 | 10.981 |
| 2.85 | 2.7649 | 6.183 |
| 2.206 | 3.2231 | 5.221 |
| 2.29 | 3.263 | 5.681 |
| 2.2879 | 3.4691 | 6.954 |
| 3.092 | 3.407 | 7.345 |
| 4.746 | 3.876 | 9.906 |
| 4.545 | 4.0969 | 11.592 |
| 5.544 | 3.072 | 12.612 |
| 3.0941 | 2.382 | 11.69 |
| 1.552 | 3.201 | 6.437 |
| 3.597 | 3.201 | 7.7989 |
| 4.4261 | 3.3041 | 7.6129 |
| 2.565 | 3.156 | 7.989 |
| 2.4859 | 3.843 | 6.803 |
| 3.1759 | 4.2881 | 6.435 |
| 2.745 | 4.2161 | 6.495 |
| 2.2399 | 4.197 | 6.894 |
| 1.7269 | 4.1659 | 6.5111 |
| 1.043 | 3.464 | 6.059 |
| 1.263 | -0.066 | 2.1401 |
| 2.9989 | -2.388 | 2.798 |
| 6.7241 | -3.2119 | 4.17 |
| 11.373 | -5.194 | 5.4079 |
| 9.8651 | -7.766 | 4.515 |
| 11.115 | -9.087 | 5.0629 |
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| 5.6509 | -7.1291 | 0.921 |
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| 7.203 | -7.471 | 1.7539 |
| 9.171 | -11.467 | 1.651 |
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| 6.0461 | -6.5899 | 1.764 |

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| 5.445 | -8.144 | 1.57 |
| 5.5099 | -7.2199 | 1.859 |
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| 7.141 | -8.6441 | 2.104 |
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| 3.959 | -6.4751 | 0.85905 |
| 4.299 | -7.986 | 0.95895 |
| 6.039 | -9.911 | 1.2341 |
| 5.934 | -10.349 | 2.2519 |
| 4.979 | -7.689 | 3.6221 |
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| 8.1011 | -5.707 | 1.44 |
| 10.682 | -9.224 | 1.687 |
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| 5.3659 | -6.468 | 1.5071 |
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| 7.404 | -10.454 | 2.326 |
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| 5.635 | -5.577 | 1.122 |
| 5.6681 | -5.649 | 1.3279 |
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| 6.1849 | -5.733 | 1.608 |
| 6.037 | -5.843 | 1.8 |
| 7.157 | -5.163 | 1.213 |
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| 9.659 | -7.7509 | 1.505 |
| 11.804 | -11.144 | 2.5661 |
| 10.667 | -5.87 | 3.0109 |
| 9.247 | -3.684 | 2.1949 |
| 9.204 | -8.731 | 0.74805 |
| 8.6351 | -9.5021 | 1.278 |
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| 6.372 | -8.1581 | 1.5979 |
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| 4.188 | -7.045 | 1.196 |
| 2.855 | -6.36 | 1.407 |
| 3.159 | -6.15 | 1.055 |
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| 7.8761 | -5.632 | 4.3159 |
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| 7.854 | -6.854 | 0.19095 |
| 8.7491 | -9.518 | -0.67305 |
| 8.582 | -9.2741 | 0.04005 |
| 7.8319 | -9.343 | 1.8139 |
| 6.5681 | -7.838 | 1.029 |
| 4.864 | -7.194 | 0.01095 |

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| 4.071 | -6.7909 | 0.11205 |
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6.197      -7.349       1.704
6.054      -6.636       1.002
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6.4031	-6.011	1.1869
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8.3089	-5.891	1.1869
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6.573	-7.656	3.404
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2.936	-1.833	7.529
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1.576	1.326	7.0279
3.489	2.277	7.462
2.041	1.6159	8.6351
1.852	2.7611	7.2371
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1.277	3.4211	8.7551
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1.605	3.9529	7.668
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-0.23505	10.24	3.0709
11.148	8.011	6.2359
58.652	17.02	28.914
42.072	-7.047	12.025
11.359	-11.328	1.503
-0.25395	-16.926	4.146
-4.1951	-19.727	-3.275
-8.631	-18.995	-7.056
-1.8491	-15.042	-8.061
19.875	-6.789	-6.6371
44.531	6.199	-0.91905
35.177	8.971	12.332
13.002	6.141	8.5151
6.2119	4.721	0.12105
-1.614	5.26	0.942
-2.763	7.0339	2.7071
-0.38805	8.037	-1.647
10.825	8.243	4.984
35.081	5.547	16.34
37.329	-7.505	9.4271
7.734	-10.275	0.102
1.521	-12.219	-3.146
-5.5759	-12.815	-1.633
-2.311	-14.537	-2.6719
4.7561	-10.761	-6.603

12.786	-6.952	-9.878
24.472	-10.275	-0.41895
32.514	-2.779	13.227
11.965	-3.3649	2.3119
6.786	-0.56205	-0.38805
5.3861	3.342	3.006
10.148	5.5121	5.475
17.539	5.0591	2.017
20.424	-1.299	2.034
41.497	-1.4381	7.582
25.729	-8.9891	8.484
14.062	-9.612	4.282
3.5659	-13.239	-0.98205
-7.578	-13.871	-5.3441
1.7659	-14.718	-4.977
-4.796	-14.601	-6.6289
8.0381	-10.926	-14.451
50.121	4.6639	6.736
27.848	7.489	10.945
1.392	9.3641	-2.0899
-2.193	12.692	-2.9209
0.18105	12.814	0.576
-0.144	8.222	4.038
16.614	8.708	6.722
34.961	14.291	12.921
53.183	1.484	20.936
16.476	-7.6151	-0.393
-0.738	-12.566	2.932
-14.454	-16.311	0.68595
-7.5401	-16.234	-4.096
1.366	-12.087	-5.945
6.3071	-9.621	-4.9699
17.895	-4.9909	-4.724
55.46	11.028	2.3411
28.193	11.408	7.495
9.456	6.0979	-0.345
-1.104	5.253	-2.016
-4.391	5.9329	2.717
2.517	10.329	4.3129
4.8521	9.515	4.766
14.627	10.305	4.8739
44.933	16.472	24.238
40.303	-2.0389	13.895
13.112	-6.186	-3.5
2.553	-9.2171	-1.269
-1.078	-13.497	-0.33
-4.765	-16.634	-7.02
-13.336	-18.58	-10.819
6.899	-18.358	-5.655
18.118	-14.197	-7.9181
66.414	4.422	8.858
32.493	12.371	17.422
8.153	7.599	-0.46905
6.4031	6.4189	-1.312
1.6721	7.1899	4.5979
-1.032	11.607	1.1171
1.0811	11.894	2.391
17.074	13.183	5.226
59.861	12.203	23.457
31.976	-9.7391	7.878
11.18	-7.359	-4.353
3.123	-9.667	-1.4869
-3.271	-11.991	-0.34695
-7.3601	-13.766	-8.207

-5.469	-13.94	-6.0671
6.4151	-11.628	-4.1441
22.155	-6.1781	-2.162
42.977	7.626	9.9641
30.424	9.4451	7.17
7.7081	7.0819	-2.705
-1.2791	7.767	1.325
-4.791	11.468	2.049
-2.318	9.558	3.5381
9.314	8.586	4.115
32.919	12.34	10.972
62.782	1.0061	27.983
19.861	-11.108	-2.2721
5.24	-10.184	-3.682
-6.623	-12.856	-2.262
-6.781	-12.662	0.75105
-3.8771	-11.853	-3.29
0.375	-10.339	-6.8659
10.864	-9.0851	-7.937
53.471	5.83	8.034
33.07	10.027	2.561
12.106	5.7491	0.72195
3.0109	3.338	2.724
1.066	5.145	2.403
-1.4629	6.675	1.314
-3.414	11.543	-0.26805
-6.17	9.486	-3.63
13.107	14.873	20.098
71.099	19.604	23.261
36.537	-9.243	17.438
9.3221	-12.284	-7.8739
-2.153	-10.21	-3.4451
-6.807	-15.753	-0.02595
-11.433	-17.898	-5.4611
1.746	-15.626	-7.266
10.88	-12.54	-8.7581
38.962	-5.331	-4.041
51.958	8.119	18.978
21.02	6.338	2.934
8.1289	4.5439	-1.207
7.746	5.9539	-1.13
-0.64395	5.586	1.0811
-3.522	9.189	2.415
-2.294	12.187	-0.38295
10.464	9.467	7.282
24.374	22.817	21.015
57.4	5.2069	34.409
24.647	-7.785	0.60705
-0.63495	-15.803	5.025
-6.7331	-20.362	-4.5919
-10.652	-20.654	-6.311
-3.4579	-16.421	-7.9181
11.51	-13.299	-5.811
19.976	-8.802	-5.43
63.426	4.3601	13.256
28.31	6.4931	13.543
10.591	5.854	0.21705
4.256	5.966	-1.13
1.368	8.33	1.768
-1.207	11.746	1.7831
-4.197	10.819	2.4701
7.904	7.8319	6.1211
33.103	15.146	20.153
53.576	-0.78405	14.671

11.843	-7.3871	0.01095
2.946	-9.2089	0.38505
-2.342	-11.505	-2.875
-2.299	-11.764	-5.636
-6.57	-12.176	-7.3
-6.999	-12.564	-4.156
9.5441	-12.387	-8.4011
30.544	-6.87	0.72495
59.006	6.508	16.419
21.187	5.7649	1.8881
1.0639	4.6451	-5.351
-0.89295	7.836	3.3049
-0.28995	12.735	2.4649
-3.242	10.362	5.877
9.954	9.311	2.487
51.934	13.733	17.869
48.8	-4.95	7.5499
11.089	-10.277	1.393
-1.344	-14.611	6.2411
-5.3441	-16.27	4.603
-3.359	-14.611	-6.591
-3.46	-9.348	-10.75
3.221	-7.031	-4.719
15.82	-0.657	-3.7969
39.568	8.3149	-2.856
25.049	7.9181	0.63105
13.473	6.081	-0.09105
2.053	4.118	1.1119
0.64995	6.9431	-0.41205
0.46605	10.566	1.448
2.158	9.907	6.322
11.804	12.57	14.297
50.444	9.668	11.439
36.132	2.375	-4.683
13.332	-7.694	2.266
1.5379	-11.582	6.4991
0.12105	-13.799	-1.805
-4.77	-12.2	-7.848
-6.7999	-9.518	-3.9
3.954	-5.58	-3.9979
11.417	-2.008	-7.321
43.441	8.2189	-5.4799
27.158	7.82	5.604
20.148	8.057	-0.99105
-0.28305	5.0089	-0.70395
0.36	10.757	1.694
-0.417	15.459	3.942
1.5619	13.863	6.9401
11.122	13.001	12.748
54.371	14.389	16.833
36.436	-1.483	-2.471
11.158	-9.6791	2.163
0.717	-13.047	7.359
-4.93	-13.564	-2.748
-5.715	-14.707	-5.349
-1.774	-13.447	-2.9329
10.856	-11.721	-8.2241
29.893	-8.139	-2.734
51.467	3.625	3.971
21.269	5.868	1.7659
6.729	7.353	1.108
-1.916	12.215	1.828
1.495	16.393	3.028
5.187	12.799	5.19

21.4	8.222	8.724
41.639	14.576	17.659
51.541	-4.167	21.624
21.673	-11.977	2.3651
4.6339	-15.437	3.653
-8.344	-23.965	1.7659
-8.184	-23.235	-5.219
-0.867	-18.937	-5.854
10.792	-14.534	-6.3011
25.796	-9.65	-4.149
54.725	5.0659	10.495
27.364	8.4731	10.433
13.586	8.547	-6.3229
-0.11805	8.1911	-1.9541
-1.755	9.041	5.757
-3.826	9.881	4.9459
7.026	7.9541	3.9259
27.953	5.0141	11.376
55.384	-10.629	9.392
15.803	-14.491	0.85605
3.944	-12.068	3.528
-4.1929	-10.059	0.94005
1.124	-7.9879	-1.647
-2.77	-6.018	-6.0761
-3.6469	-5.13	-2.593
-2.919	-11.51	-2.557
21.693	-10.531	3.906
37.324	-3.866	5.9989
22.688	1.326	2.4821
7.952	2.9809	-0.70095
7.548	5.593	-0.81195
4.763	8.9471	-0.68505
3.193	7.853	0.99495
7.176	5.947	-0.49995
24.285	2.198	3.9499
44.555	-2.891	16.249
32.234	-8.144	11.633
12.238	-13.459	11.779
-0.05295	-12.777	3.516
-6.644	-12.908	-2.069
-13.789	-14.235	-1.1441
-9.955	-12.384	-2.2481
11.694	-11.726	-10.032
22.906	-12.573	-4.139
53.523	-4.62	0.80805
19.212	-0.57795	4.7111
8.225	4.516	0.294
-0.15105	8.918	-2.0831
-3.005	13.187	0.03495
3.283	12.148	2.805
10.763	7.068	3.677
19.456	-0.64095	7.737
58.997	-8.108	10.866
17.208	-11.757	-1.1921
4.421	-10.002	9.6911
-4.7149	-11.252	2.932
-7.329	-12.827	-4.863
-9.1991	-12.552	-8.037
-3.891	-11.027	-4.865
16.179	-11.029	-7.235
48.773	-4.4089	5.5819
27.142	1.4081	12.791
10.284	3.4811	-2.148
8.936	4.044	-2.411

2.532	3.9581	1.165
-1.219	4.7089	0.08295
2.4461	6.4211	-5.138
13.042	6.718	3.468
33.805	1.839	16.957
26.893	-6.154	1.934
7.277	-7.4831	5.127
-2.205	-8.7041	5.2999
1.1381	-8.826	-0.555
-0.35895	-10.208	-6.112
-2.888	-10.462	-5.0329
6.1849	-10.624	-6.843
30.929	-7.4569	4.665
34.154	-0.08805	13.129
10.658	0.06195	-0.44805
8.364	3.532	-6.809
0.02295	6.591	1.7951
0.97095	9.699	1.227
4.229	8.9951	1.926
13.741	0.558	4.38
25.717	-19.038	11.611
17.871	-18.583	-1.257
0.93495	-17.467	6.684
2.129	-14.182	-0.71805
15.805	-2.259	-4.137
16.239	5.325	-0.66495
6.8869	1.109	3.44
4.584	-2.6591	-5.614
5.211	-8.1011	11.259
17.737	-10.385	-4.678
25.269	-4.641	-4.233
4.5259	-3.363	-1.499
-0.453	1.8079	-2.217
2.096	5.234	-3.862
6.312	4.9751	6.8441
16.538	5.121	6.88
26.543	0.714	1.536
23.512	-1.73	1.155
8.714	-3.573	7.323
1.83	-5.2091	0.82995
0.09	-7.785	-0.76095
-0.831	-9.171	-1.8769
0.18105	-8.209	-5.171
10.796	-9.1301	-4.779
28.684	-4.3369	3.3529
29.241	-0.57795	11.23
15.068	1.858	1.3729
6.918	3.555	-3.519
-0.24	7.724	-1.1869
0.3	12.041	2.901
3.207	10.008	5.367
17.079	7.187	6.037
33.946	2.291	16.878
48.333	-7.56	11.494
11.376	-8.3711	3.1
-3.6401	-13.102	4.766
-7.118	-14.802	-0.61005
-2.8451	-12.722	-5.313
-4.489	-11.266	-8.7941
7.423	-9.423	-4.98
15.741	-10.174	-4.3811
44.768	-2.046	3.7481
28.727	4.111	10.759
12.626	5.3389	0.32895

2.5579	7.2161	-3.7999
1.77	13.175	-0.73305
0.87705	10.86	6.009
4.907	7.046	7.1531
19.796	5.947	6.971
62.502	-1.601	21.681
24.171	-8.711	-1.398
5.1529	-9.791	6.8441
-6.929	-13.232	3.966
-4.509	-12.873	-3.8809
-3.381	-11.158	-4.515
-4.516	-9.1091	-5.162
9.9079	-6.6071	-3.9169
17.172	-5.822	-3.8899
42.101	1.176	-0.61995
28.808	5.076	1.3849
11.867	4.5011	-1.7381
1.308	5.7919	-2.1881
2.3929	11.564	1.325
-3.3641	12.541	9.717
4.947	9.416	9.0589
20.773	12.529	12.995
70.067	6.072	32.721
27.101	-10.62	1.9429
4.476	-15.758	7.694
-6.383	-19.157	-0.60105
-5.301	-19.038	-2.868
-4.518	-15.226	-6.22
2.5271	-11.328	-8.308
15.314	-6.2171	-11.073
34.236	-5.898	-7.1269
44.081	2.749	15.387
26.162	7.348	4.1749
6.058	5.6741	-3.594
-0.429	9.033	2.937
-0.38295	13.544	5.099
-1.013	13.965	6.056
14.994	9.452	7.704
53.397	14.727	18.166
50.835	-4.672	14.201
6.813	-13.155	3.3319
-1.6159	-14.996	3.42
2.084	-18.13	0.36795
-4.367	-18.159	-6.189
-8.1791	-16.505	-6.45
10.78	-12.035	-13.175
28.138	-7.1771	-5.763
48.22	-0.80595	10.05
31.906	4.326	5.202
8.8811	4.5971	1.488
2.817	9.4121	0.258
-3.041	13.386	2.4649
1.62	14.056	0.576
6.338	9.876	0.246
24.261	6.979	16.507
50.444	-14.036	31.198
27.324	-18.015	13.586
7.1291	-16.107	-1.65
-2.469	-11.235	0.55905
-7.0009	-10.818	-2.547
-8.244	-11.268	-6.495
-4.978	-11.673	-5.9329
10.241	-11.963	-6.948
42.726	-8.204	13.952

40.628	4.4051	14.939
12.353	5.2069	2.35
0.17805	5.83	-4.556
-3.754	11.71	-3.5621
-0.285	14.044	-2.2361
3.87	8.454	6.969
21.714	9.0431	12.499
48.239	0.723	26.419
34.885	-10.902	5.2931
8.235	-12.777	9.822
-7.367	-16.507	5.654
-1.968	-14.024	-2.997
0.13005	-11.462	-5.425
-4.138	-8.886	-8.99
3.987	-9.207	-6.594
17.665	-9.918	-6.1841
63.682	2.9569	9.72
23.06	5.916	8.6951
5.187	6.036	-5.4611
-0.08895	11.258	-2.4011
0.74805	14.157	4.4981
2.271	10.808	10.933
9.899	2.646	15.229
12.618	-4.8739	32.79
23.936	-12.281	21.092
8.534	-6.846	3.21
2.56	-3.372	1.361
2.182	-2.2519	-2.2031
3.532	-1.986	4.814
2.0051	1.0579	3.066
5.718	2.021	10.737
2.718	5.3891	12.085
1.7029	2.1	20.082
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-0.357	3.819	6.322
1.689	5.919	-1.116
-2.177	4.724	8.099
-2.421	3.4451	6.013
-0.94605	2.44	11.242
-2.0711	5.4109	11.551
-0.879	2.662	20.175
-1.8769	2.1911	15.382
1.828	1.688	6.72
2.884	0.639	2.2639
7.471	-2.328	2.19
2.395	0.912	3.756
4.974	-1.055	7.4239
6.896	-0.31005	2.793
8.716	0.70905	11.338
10.346	3.682	26.771
2.814	6.0979	12.691
0.71505	8.267	-0.95505
-2.256	7.4029	11.158
-9.7729	7.8101	8.159
-7.7359	4.444	8.855
15.185	20.626	17.642
5.556	-4.7801	60.927
20.115	-17.314	16.22
-0.81195	-7.9001	-10.508
-3.6199	-9.063	1.407
7.701	-7.979	-2.4131
5.9081	-6.4271	-7.5461
3.013	-6.229	-6.548
8.8451	-1.878	-4.614

31.016	7.2379	7.931
27.992	8.349	31.629
9.753	6.9859	20.134
2.613	4.86	6.36
-0.63	9.989	5.874
-4.882	11.274	10.265
-6.527	10.307	3.219
11.17	12.761	6.7271
25.791	13.973	31.514
29.397	2.064	22.411
14.479	-2.17	2.0869
-0.15795	-4.569	0.16695
3.6139	-7.306	0.67905
5.773	-7.5889	0.91605
0.135	-8.058	-6.708
-1.446	-7.476	-7.939
4.72	-5.3501	-5.542
47.105	7.46	7.931
31.116	11.619	15.126
14.491	9.869	3.689
0.111	7.334	-1.159
-2.883	11.959	2.209
-4.8731	14.272	3.195
3.3941	14.298	5.357
24.599	18.194	21.36
62.866	13.01	22.835
30.874	-7.61	-7.412
4.557	-16.864	4.67
-4.013	-24.176	0.95895
-6.711	-19.986	-11.535
-0.96	-13.881	-6.4879
12.872	-9.0109	-10.355
45.23	5.1049	1.788
49.817	18.194	18.822
6.877	9.668	4.936
-4.604	5.023	-4.6369
-6.338	6.3041	-0.936
-3.405	9.804	8.238
1.473	9.292	13.759
8.333	18.502	7.8709
47.598	26.779	8.5459
40.489	5.03	20.084
8.97	-11.204	-1.731
-1.4029	-14.436	-4.211
-1.904	-15.765	-1.171
2.01	-13.081	-7.604
-0.98895	-8.6351	-11.164
11.618	0.14895	-11.411
51.74	19.616	5.472
19.875	5.964	5.424
12.221	4.863	4.8071
-0.35205	2.691	5.939
-2.823	8.164	3.291
-6.0431	9.455	9.5951
1.909	10.685	14.987
45.383	12.364	35.687
33.036	-3.822	12.001
26.218	-3.444	-9.261
2.256	-10.984	1.419
-3.7931	-14.029	-1.535
-7.6669	-15.128	-9.718
-5.569	-12.995	-11.715
8.455	-10.251	-6.936
27.913	0.79005	-1.755

49.353	13.355	12.988
16.816	9.1	12.813
4.655	6.809	2.8361
-0.65595	6.97	-0.225
-5.418	8.741	4.323
-1.588	10.178	9.839
5.271	9.692	12.966
61.994	17.38	29.249
34.875	-4.191	8.525
12.882	-6.7459	0.88695
-0.97005	-11.256	5.4409
-3.936	-11.273	-3.9619
-4.8559	-11.766	-7.599
-4.401	-7.907	-9.309
10.648	-4.8041	-2.0179
18.956	0.88605	2.077
49.128	8.6621	21.59
16.227	7.094	4.864
2.666	3.778	-1.59
-2.641	2.423	-0.25095
5.091	7.793	1.9429
-2.0111	10.503	2.271
4.279	8.1761	6.131
8.34	15.665	18.643
39.508	8.373	27.767
22.265	0.32295	3.839
6.051	-6.6139	-0.92895
-0.036	-8.925	-0.22995
1.124	-9.461	-2.995
-3.9581	-8.163	-8.669
-0.59205	-6.6791	-5.547
6.944	2.514	-3.792
41.505	16.175	2.068
16.385	12.218	4.771
12.429	8.954	0.71295
-0.513	5.6719	-1.276
0.52995	8.3201	3.959
-2.703	7.518	6.5141
0.17805	7.269	3.0011
17.282	25.96	4.002
40.039	22.764	12.171
23.412	6.388	4.9481
7.5499	-3.358	0.14295
0.64995	-7.586	0.47805
-0.17505	-11.249	-0.795
-3.915	-11.709	-6.3731
-4.3631	-9.753	-8.43
7.3751	-5.618	-7.273
25.949	9.074	-6.744
27.419	10.688	-4.3999
32.885	15.742	8.716
11.168	9.955	-0.888
1.974	7.824	-6.7061
0.05895	10.46	0.01305
-8.5121	11.722	12.128
-1.224	11.428	18.573
33.319	28.865	22.823
54.507	13.599	29.575
29.577	-7.373	9.636
11.781	-17.958	0.957
3.307	-20.69	-3.862
-4.293	-19.335	-11.899
4.7149	-14.283	-8.099
11.029	-8.716	-9.737

25.387	0.07695	-9.23
44.653	14.229	4.2611
26.876	13.709	9.186
11.838	9.371	0.981
-2.134	8.942	-3.081
3.1519	14.011	-0.903
0.56805	13.551	-0.44295
1.94	9.503	6.921
24.111	14.432	20.259
49.35	11.648	21.07
23.752	-0.40095	-4.317
-0.15405	-9.152	5.3239
-2.407	-10.375	-0.57
1.962	-8.364	-7.961
7.928	-5.154	-3.158
6.6551	-2.343	-1.147
5.168	-5.697	-5.037
7.9931	-9.518	-10.999
40.018	-4.428	5.6951
33.915	2.943	18.231
20.61	7.695	2.649
5.7401	9.996	-2.428
9.7811	17.712	-3.088
-4.5041	16.934	4.4479
2.838	12.912	9.459
18.063	9.263	11.549
54.84	6.9101	14.68
38.193	-11.671	8.063
10.648	-12.741	5.985
-6.6319	-18.346	3.528
-9.35	-17.678	-6.263
-4.9181	-13.541	-3.053
3.147	-10.5	-4.245
16.787	-9.698	-9.368
25.803	-11.695	1.318
41.962	-1.2731	11.446
22.655	3.534	1.349
8.819	4.822	-5.7701
2.019	9.543	-4.1681
3.669	14.037	1.479
9.875	14.411	8.4169
14.105	4.793	17.484
52.52	-4.332	20.486
39.046	-21.41	10.627
8.443	-18.595	2.736
-2.79	-18.145	0.14505
-12.735	-18.408	-5.3149
-4.159	-17.58	-3.3251
2.8721	-13.093	-7.599
8.144	-14.491	-7.137
16.272	-18.432	1.634
34.547	-20.678	11.319
23.627	-11.271	18.681
17.874	-3.013	20.572
14.448	7.029	3.5741
4.713	11.818	3.045
9.135	8.9381	3.351
7.818	2.0899	-1.932
28.375	-6.2411	18.296
45.927	-21.942	28.979
20.244	-28.94	17.079
-4.202	-21.008	-1.891
-11.449	-15.99	-6.172
-12.522	-15.135	-8.7911

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  -6.584      -13.22     -12.048
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   39.23     -20.625      16.038
  40.655      -4.136      5.4671
  11.816    -0.46605       2.077
  6.3341       5.006       2.432
  4.4351      11.399      3.6671
   5.673      12.012       0.234
 0.40095       7.329       5.795
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  72.864     -6.4729      18.324
  39.067     -19.825       9.126
  1.0691     -23.512      9.7841
  -13.02     -22.287     -3.5621
 -20.902     -23.572      -5.803
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  14.977     -13.799      -6.368
  30.374     -17.632      4.4741
  43.118      -8.982      16.895
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   2.541      10.197      -1.152
-0.53205      11.617      3.3049
-0.27795      6.7301      1.4261
   6.501      3.3401       1.383
  34.667       -7.68      11.501
  39.515     -18.317      16.081
  17.577     -17.347       5.288
   2.982     -13.593       2.151
  -7.734     -10.962      -2.686
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  17.807      1.4269       4.476
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  16.301      -2.137      19.033
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   2.194      -1.146       4.206
  -0.096     0.97695      -1.101
  -2.148      4.1921    -0.02895
  -5.354       4.508    -0.02895
  -1.399       3.464       0.945
-0.09405      7.8551      24.485
   37.47       5.361      49.454
  14.347     -4.4351      19.612
  1.2101     -6.2809       -0.12
 0.19995      -7.359      -3.369
   0.693      -7.797     -3.0379
  1.9189      -8.103     -5.8609
   0.387      -6.794      -7.803
   3.051      -5.453     -10.721
  26.639     0.92895       15.87
  38.988      9.5839      25.045
  11.785       4.231      10.366
  3.9949       1.851       0.303
   2.307        ...
```

```matlab
% Use the trained model to make predictions on the test data
predictions = trainedModel.predictFcn(testPredictors);

% Display the predictions
disp("Predictions for the test data:");
```

Predictions for the test data:

```matlab
disp(predictions);
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Creating Graphics

Let's visualize data in MATLAB. Say we wanted to graph the acceleration data that we took earlier to compare how the X, Y and Z data compare against one another. We can do this using the `plot` command. The only problem with this command is plotting multiple data on the same graph the code can be messy in one line. Because of this, we use the `hold on` command to plot multiple lines on the same graph. Don't forgot to also use `hold off` when you are done or else everything you plot will go on the same graph.

```
plot(accelTime,Xacc);
hold on;
plot(accelTime,Yacc);
```

```
plot(accelTime,Zacc);
hold off
```
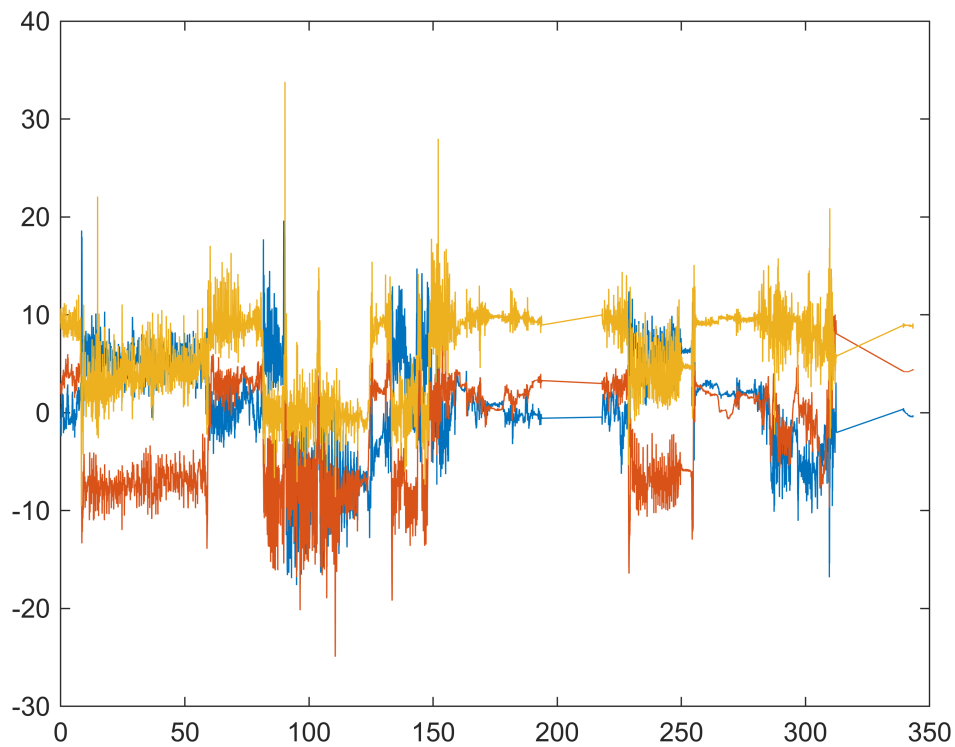

In the graph we just made it is very difficult to differentiate between the lines because there is so much data being graphed in such a small window. We will want to zoom in on the graph in order to see any trends between the different data lines. To do this, we set a limit on the x axis usng `xlim` so that we can look at the first 50 seconds of data.

```
plot(accelTime,Xacc);
hold on;
plot(accelTime,Yacc);
plot(accelTime,Zacc);
xlim([0 50])
hold off
```
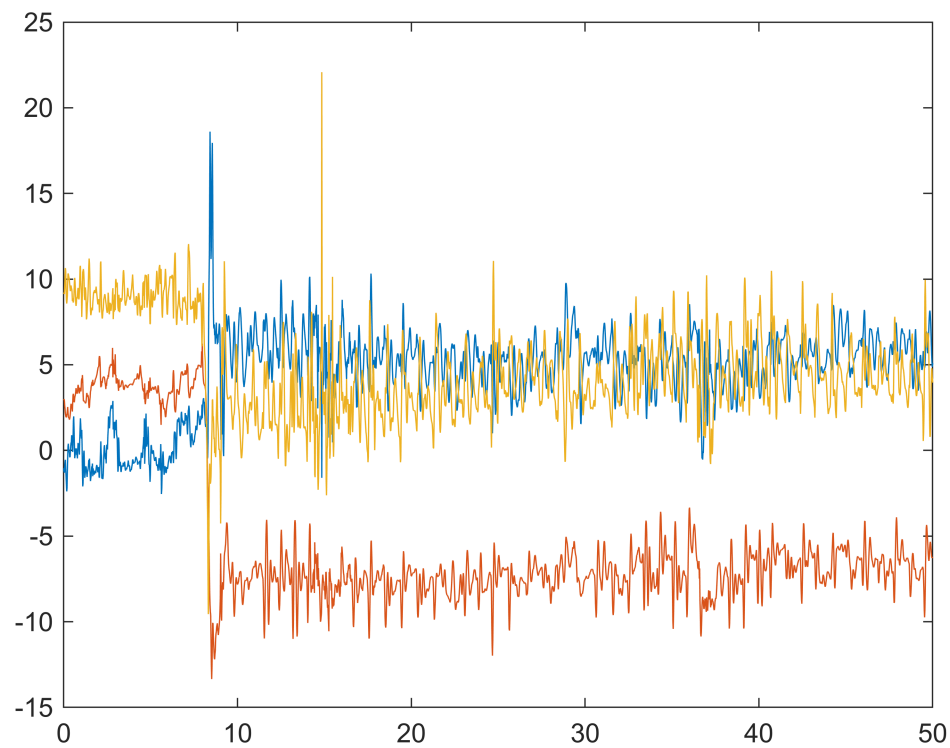
Adding Title and Labels to the Graph (Final Plot)

```
plot(accelTime,Xacc);
hold on;
plot(accelTime,Yacc);
plot(accelTime,Zacc);
xlim([0 50])
legend('X Acceleration','Y Acceleration','Z Aceeleration');
xlabel('Time (s)')
ylabel('Acceleration (m/s^2)');
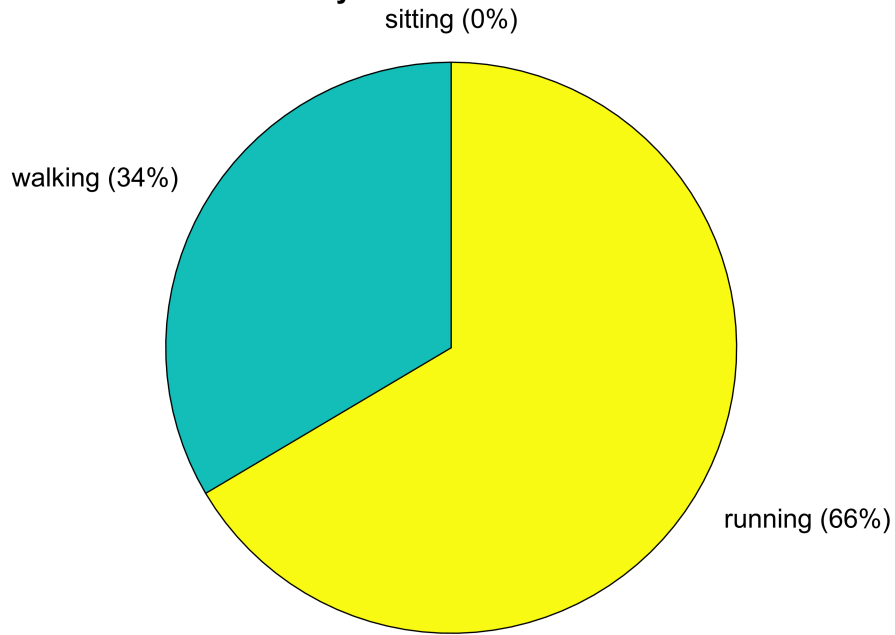title('Acceleration Data Vs. Time');
hold off
```

Acceleration Data Vs. Time
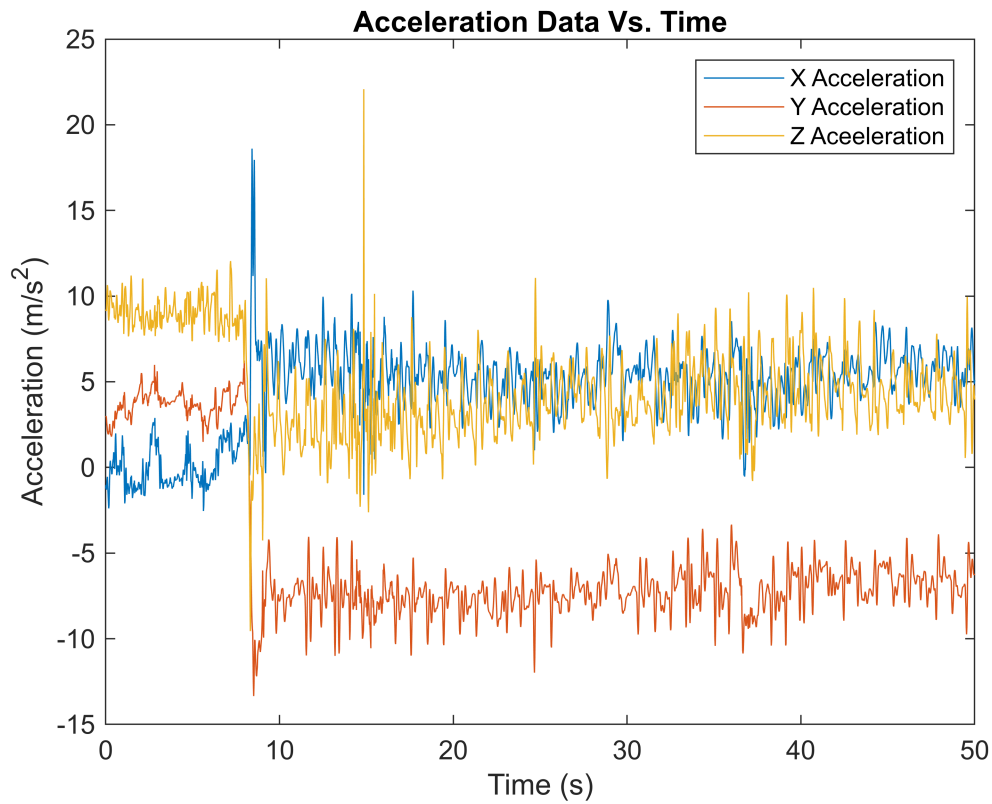
Creating a "Pie Chart" for displaying the Summary of the Activities completed during a Workout :

```matlab
% Convert predictions to categorical array for plotting
yfitcat = categorical(predictions);

% Plot the predictions using a pie chart
figure;
pie(yfitcat);
title('Activity Predictions Pie Chart');
```

Activity Predictions Pie Chart

sitting (0%)

walking (34%)

running (66%)

THE END