

1 Warm-Up Question

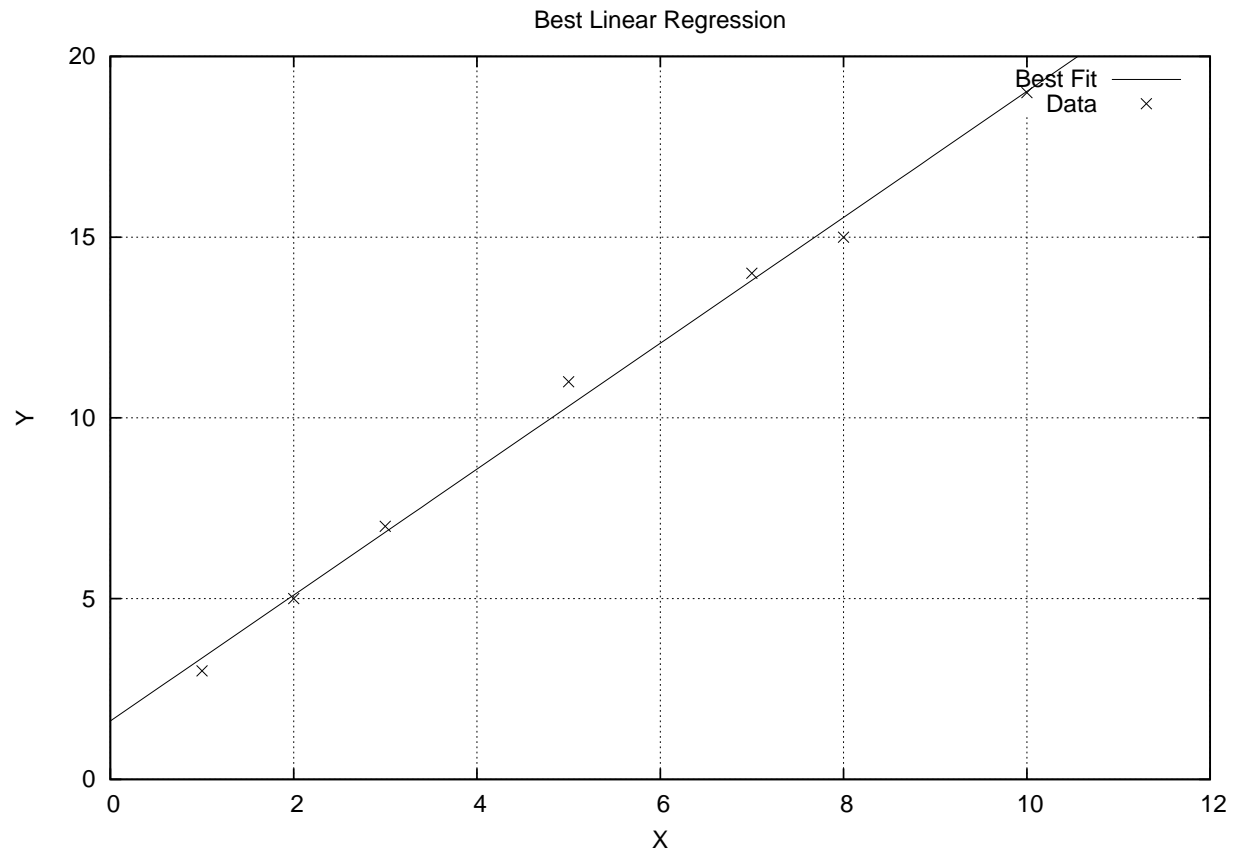
General Problem

$\min t$
 $a * x_i + b - y_i \geq t$
 $-a * x_i - b + y_i \geq t$
where x_i and y_i are from the set of data, finding a and b

Specific Problem

$a = 1.74145$
 $b = 1.61538$

Plot



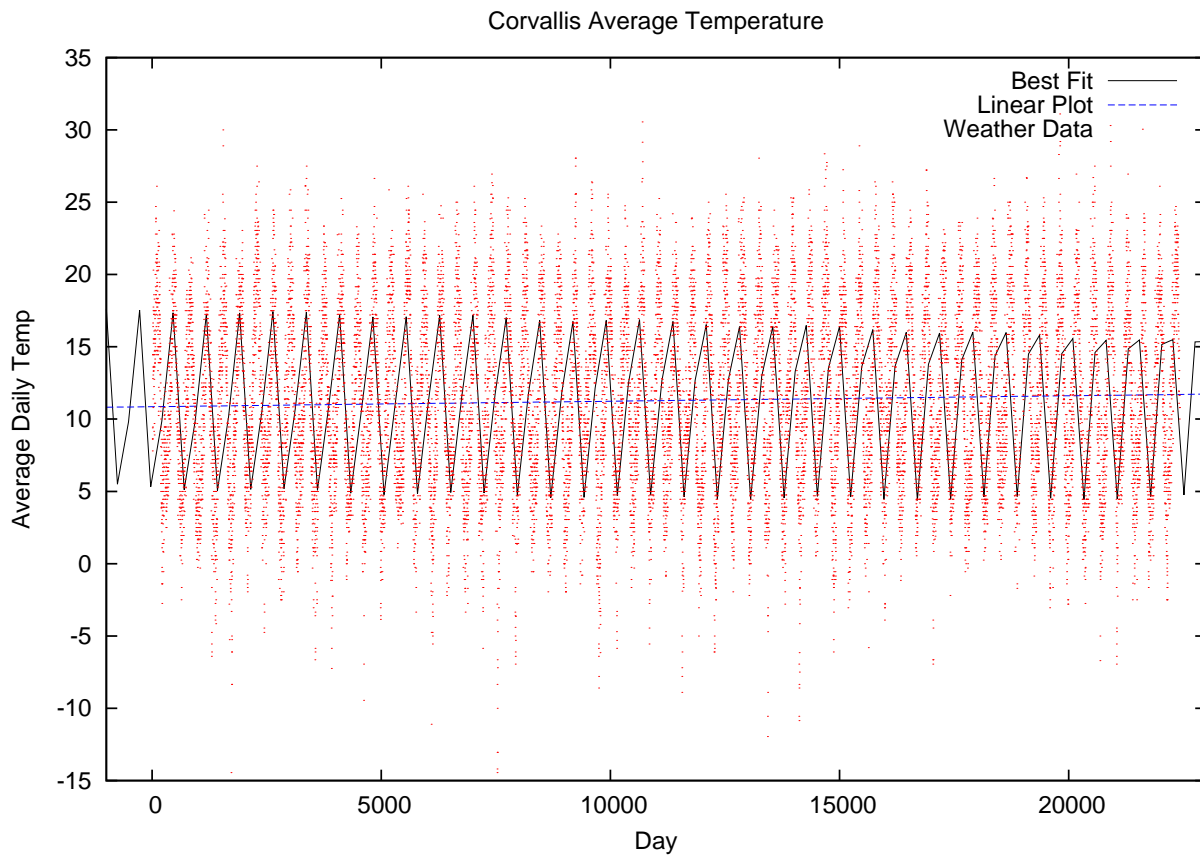
2 Warming-Up Question

Linear Program Description

X Constants

$$\begin{aligned}x_0 &= 10.8564 \\x_1 &= 3.7825 * 10^{-5} \\x_2 &= -2.61736 \\x_3 &= 6.59226 \\x_4 &= 0.0190993 \\x_5 &= -0.133374\end{aligned}$$

Plot



X_1 Century Trend

With x_1 being $3.7825 * 10^{-5}$ or 0.000037825, this says that Corvallis is increasing by 0.00003 °C per century. this is a heating trend.