

The function `rss` below is meant to mirror the formula for RSS for a simple linear regression model.

$$\text{RSS}(b_0, b_1) = \sum_{i=1}^n (y_i - (b_0 + b_1 x_i))^2$$

`coef[1]` and `coef[2]` represent b_0 and b_1 , respectively and refer to the first two elements of a vector called `coef` which is the argument of the function.

- Write in your final values in each case in the spaces given. Comment on whether they match the results you got from your linear model object in the problem set.

Starting b_0	Starting b_1	Final b_0	Final b_1
0	0		
Eyeballed <i>intercept</i> : _____	Eyeballed <i>slope</i> : _____		

- $$\text{RSABS}(b_0, b_1) = \sum_{i=1}^n |y_i - (b_0 + b_1 x_i)|$$

3. Use `rsabs` to estimate the parameters b_0 and b_1 using `optim()` as you did before for `rss`. Comment on whether your results matches the estimates that come out of `lm()` and from the `rss` function.

Starting b_0	Starting b_1	Final b_0	Final b_1
0	0		
Eyeballed <i>intercept</i> : _____	Eyeballed <i>slope</i> : _____		