> source("bayesNonInformativeRun.r")

> head(posteriorSamples)

intercept X1 X2 X3 X4 X5 X6

1 -590.6862 0.06229818 -0.001635710 -0.04943258 -0.06951280 0.03651783 4.889299

2 -666.7932 0.06032602 -0.001717356 -0.03779114 -0.06233678 0.01227048 6.000294

3 -585.6895 0.06079896 -0.001785912 -0.06267918 -0.06965556 0.03296048 4.988909

4 -340.3695 0.06156004 -0.001598494 -0.06381538 -0.07930809 0.02146041 2.205737

5 -431.6847 0.06032481 -0.002025167 -0.03948594 -0.06085521 0.03425260 3.621817

6 -569.5135 0.06145526 -0.001377743 -0.05577048 -0.06626173 0.03347252 5.024325

residualVariance NA NA

1 -2.361007 -5.697284 0.02399401

2 -2.712670 -6.434509 0.02262216

3 -2.300933 -5.637843 0.02258346

4 -1.442851 -3.347621 0.02355115

5 -2.364884 -4.388314 0.02245771

6 -2.298914 -5.503434 0.02340910

> quantile(posteriorSamples$intercept, c(0.5, 0.025, 0.975))

50% 2.5% 97.5%

-554.7340 -734.8819 -369.7326

> quantile(posteriorSamples$X1, c(0.5, 0.025, 0.975))

50% 2.5% 97.5%

0.06092894 0.05882696 0.06323942

> quantile(posteriorSamples$X2, c(0.5, 0.025, 0.975))

50% 2.5% 97.5%

-0.001808921 -0.002359566 -0.001274185

> quantile(posteriorSamples$X3, c(0.5, 0.025, 0.975))

50% 2.5% 97.5%

-0.04891564 -0.06451965 -0.03339185

> quantile(posteriorSamples$X4, c(0.5, 0.025, 0.975))

50% 2.5% 97.5%

-0.06865256 -0.08529506 -0.05224486

> quantile(posteriorSamples$X5, c(0.5, 0.025, 0.975))

50% 2.5% 97.5%

0.02871957 0.01080011 0.04729789

> quantile(posteriorSamples$X6, c(0.5, 0.025, 0.975))

50% 2.5% 97.5%

4.745659 2.859628 6.479379

> summary(lmOut)

Call:

lm(formula = Y ~ ., data = data)

Residuals:

Min 1Q Median 3Q Max

-0.4862 -0.1032 -0.0024 0.1007 0.5322

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) -5.540e+02 9.013e+01 -6.147 1.04e-09 \*\*\*

X1 6.102e-02 1.181e-03 51.677 < 2e-16 \*\*\*

X2 -1.824e-03 2.858e-04 -6.382 2.39e-10 \*\*\*

X3 -4.929e-02 8.245e-03 -5.978 2.88e-09 \*\*\*

X4 -6.893e-02 8.773e-03 -7.857 7.93e-15 \*\*\*

X5 2.875e-02 9.173e-03 3.135 0.00176 \*\*

X6 4.717e+00 9.064e-01 5.204 2.25e-07 \*\*\*

Lat -2.409e+00 3.074e-01 -7.836 9.33e-15 \*\*\*

Longi -5.410e+00 8.102e-01 -6.677 3.53e-11 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1513 on 1360 degrees of freedom

Multiple R-squared: 0.8111, Adjusted R-squared: 0.81

F-statistic: 729.9 on 8 and 1360 DF, p-value: < 2.2e-16