1) optimizing the Ackley function

SRS
- 2D case will get closest to min in 100,00 iterations
- 4D case will take longer iterations and its loss progression will not be as steep
- 6D case performs worse than 4D

LRS
- I picked a starting value of, $[0.5]^d$ because the global minimum of the ackley function is at $[0]^d$ (relatively close).
- LRS performed better than SRS, except for the 2D case
- chose sigma value of 0.3 for 4D and 6D and sigma value of 10 for 2D

ELRS
- performed the best in 2D case
- chose same starting value of $[0.5]^d$, $\sigma = 0.3$
- Performed similar to LRS in 4D, 6D case

2) Modelling the Nile River

I picked K to be 3, my θ vector was $(1/750, 1/750, 1/750)$ and my sigma was picked using runif(3, 400, 500)

- I altered the step size a little bit and I am getting a nice downward exponential loss progression for both L_1 and L_2 loss function plots.