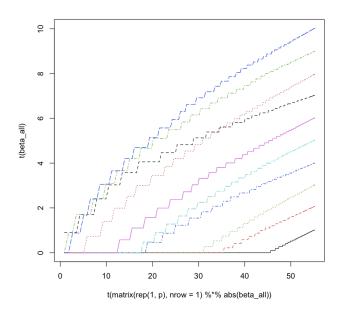
```
[R\ code] \\ n = 1000 \\ p = 10 \\ s = 10 \\ T = 10000 \\ X = matrix(rnorm(n*p), nrow = n) \\ beta\_true = matrix(rep(0,p), nrow = p) \\ beta\_true[1:s] = 1:s \\ Y = X%*\%beta\_true + rnorm(n) \\ db = rep(0,p) \\ beta = matrix(rep(0,p), nrow = p) \\ beta\_all = swRegression(X,Y) \\ matplot(t(matrix(rep(1, p), nrow = 1)%*\%abs(beta\_all)), t(beta\_all), type = 'l') \\ \end{cases}
```

[Solution Path]



[Explanation]

Concise words about connection between lasso and statewide regression.

- Paths would be nearly (if not exactly) the same, the stagewise approach is jagged.
- If taking a very large number of infinitesimally small steps, we would end up walking the same path as the lasso
- Thus we can also view the stagewise regression from the perspective of the primal form of the Lasso problem.