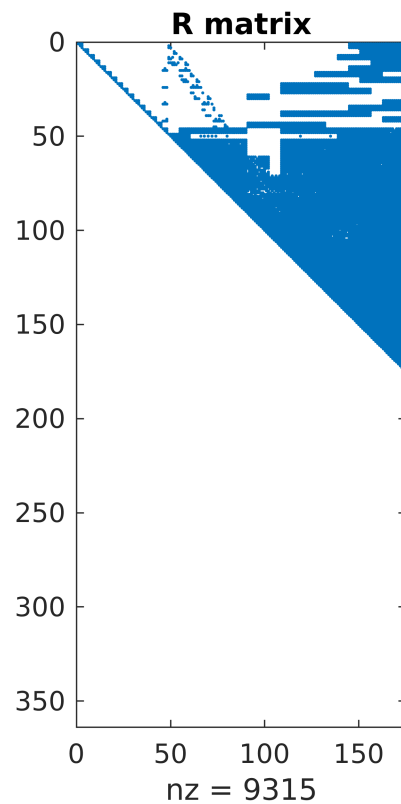


## Q3 - Variable Ordering

```
load('hw5_A.mat'); %produces A matrix in the workspace
```

### (a) Obtain R with QR fatorization

```
[~,R] = qr(A);  
spy(R);  
title('R matrix');
```



### (b) Optimal R

```
p = colamd(A);  
[~,Ropt] = qr(A(:,p));  
spy(Ropt);  
title('R_{opt} matrix');
```

