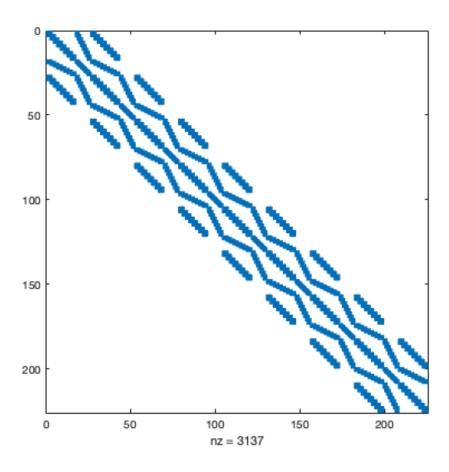
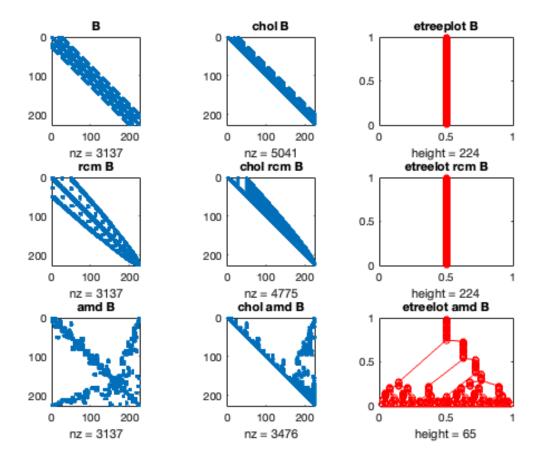
```
% This is the first part of question 3
% A Wathen matrix with rcm and amd applied with appropriate etreeplots
B = gallery('wathen',8,8);
spy(B);
p = symrcm(B);
rcmB = B(p,p);
p = symamd(B);
amdB = B(p,p);
figure();
   subplot(3,3,1), spy(B), title('B')
   subplot(3,3,2),spy(chol(B)),title('chol B')
   subplot(3,3,3),etreeplot(B),title('etreeplot B')
   subplot(3,3,4),spy(rcmB),title('rcm B')
   subplot(3,3,5),spy(chol(rcmB)),title('chol rcm B')
   subplot(3,3,6),etreeplot(rcmB),title('etreelot rcm B')
   subplot(3,3,7),spy(amdB),title('amd B')
   subplot(3,3,8),spy(chol(amdB)),title('chol amd B')
   subplot(3,3,9),etreeplot(amdB),title('etreelot amd B')
```





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