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```
do i1=1,4
   j(1)=i1
     do i2=1,4
       j(2)=i2
         do i3=1,4
           j(3)=i3
             do i4=1,4
               j(4)=i4
                  if (j(1) .eq. j(2) .or. j(1) .eq. j(3) .or. j(1) .eq. j(4)) cycle
                  if (j(2) .eq. j(3) .or. j(2) .eq. j(4)) cycle
                  if (j(3) .eq. j(4)) cycle
                print*,j(1),j(2),j(3),j(4)
             end do
         end do
     end do
end do
```

Journal of Modern Applied Statistical Methods

Invited Article

283 – 308 **Robert J. Boik**, **Ben Haaland** Second-Order Accurate Inference on Simple, Partial, and Multiple Correlations

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