



S : determinant in $\{|D_I\rangle\}$ --- X : loop over all possible X
 G : generator \xrightarrow{c} : path taken if c is true
 G_p : singly ionized generator $\text{drop } X$: cycle loop over X
 G_{pq} : doubly ionized generator past : $J < I$, so S has already been treated as a generator
 selector : S is a selector
 f_X^S : Excitation degree between X and S
 : Filtered list of determinants to be used in the inner loop
 : Possible duplication of S