## Atomic Orbitals

$$
1 s^{2} \rightarrow 2 s^{2} \rightarrow 2 p^{6} \rightarrow 3 s^{2} \rightarrow 3 p^{6} \rightarrow 4 s^{2} \rightarrow 3 d^{10} \rightarrow 4 p^{6} \rightarrow 5 s^{2} \rightarrow 4 d^{10} \rightarrow
$$

$$
5 p^{6} \rightarrow 6 s^{2} \rightarrow 4 f^{14} \rightarrow 5 d^{10} \rightarrow 6 p^{6} \rightarrow 7 s^{2} \rightarrow 5 f^{14} \rightarrow 6 d^{10} \rightarrow 7 p^{6}
$$

'S' orbital - 1 box
'P' orbital - 3 boxes
'D' orbital - 5 boxes
'F' orbital - 7 boxes


