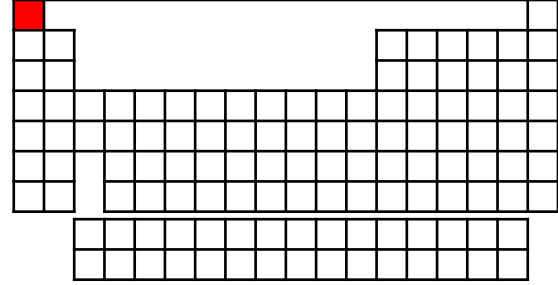


H

1s



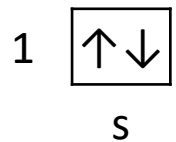
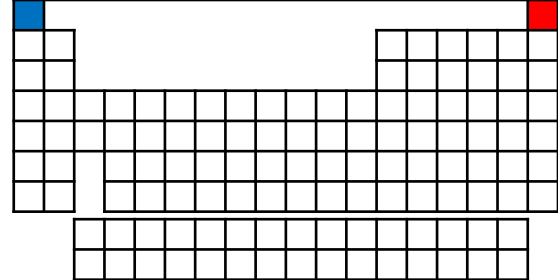
1



s

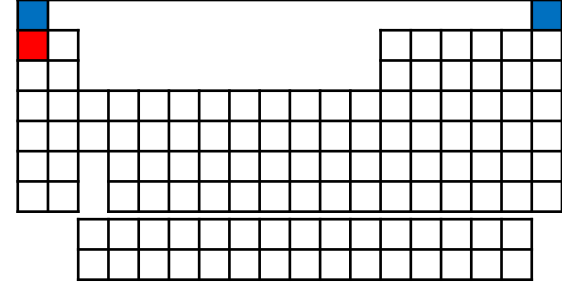
He

$1s^2$



Li

[He]2s

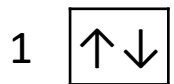
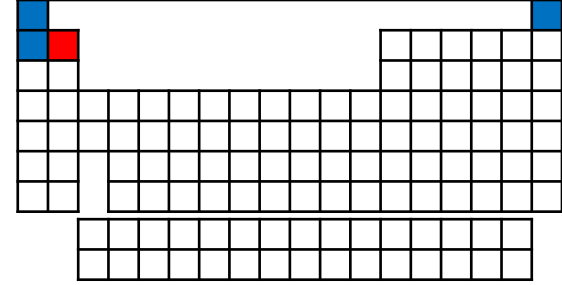


s

p

Be

[He]2s²

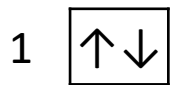
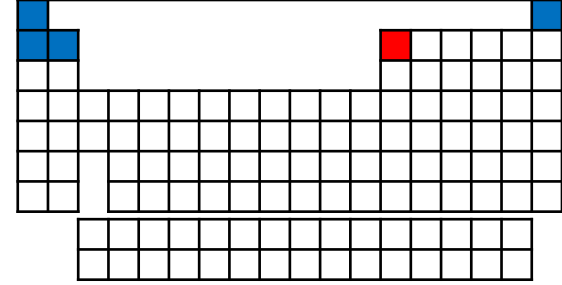


s

p

B

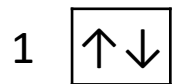
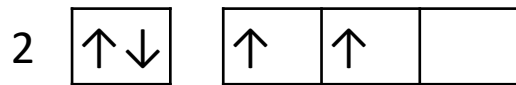
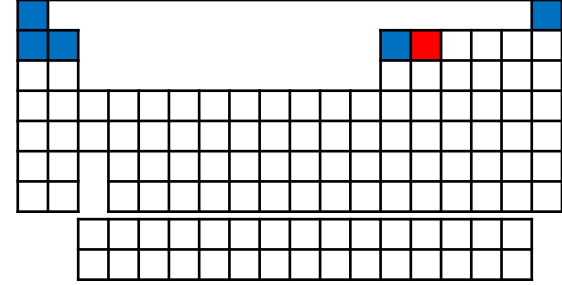
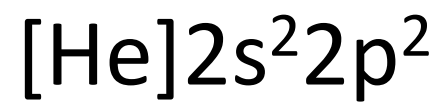
[He]2s²2p



s

p

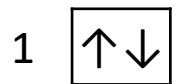
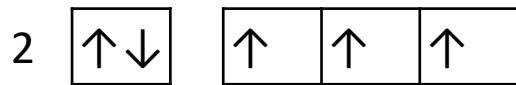
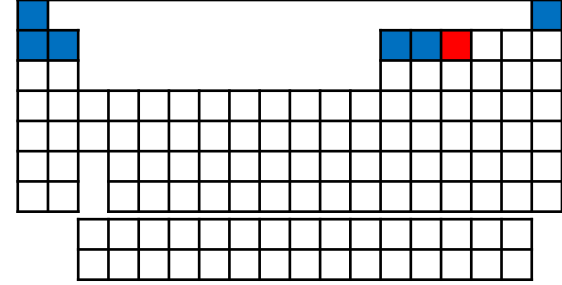
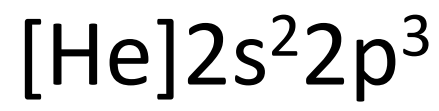
C



s

p

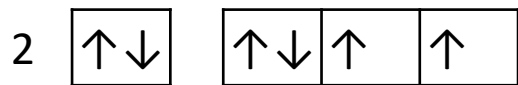
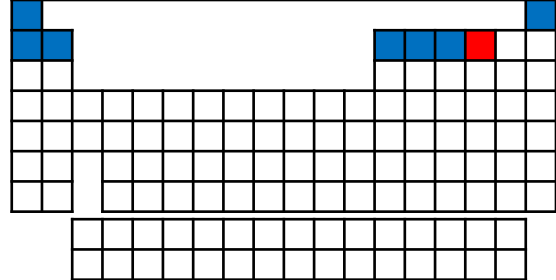
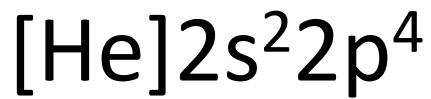
N



s

p

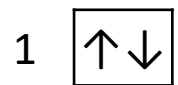
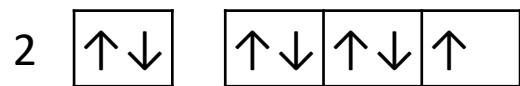
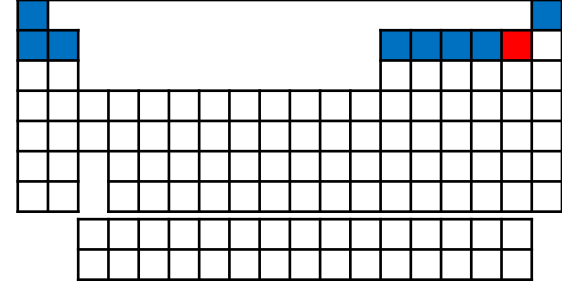
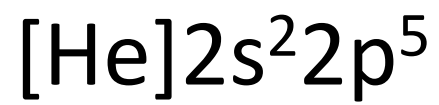
O



s

p

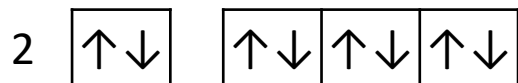
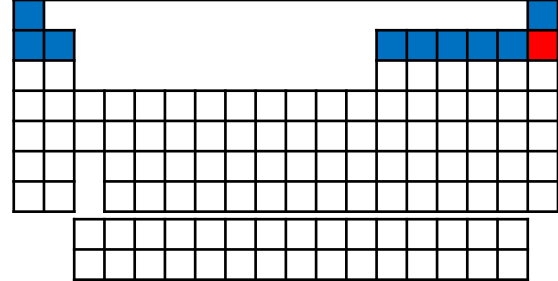
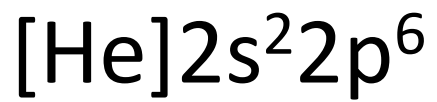
F



s

p

Ne

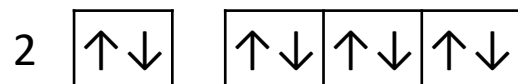
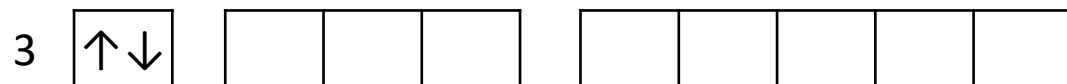
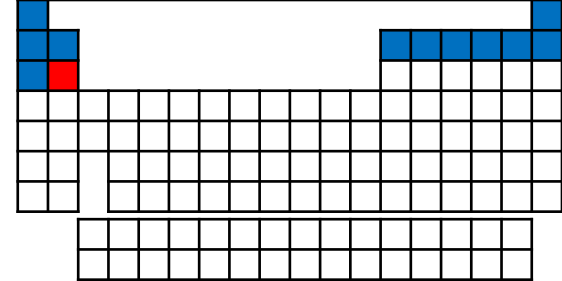


s

p

Mg

[Ne]3s²



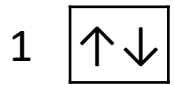
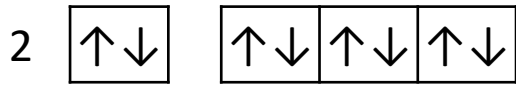
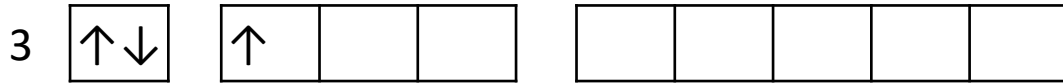
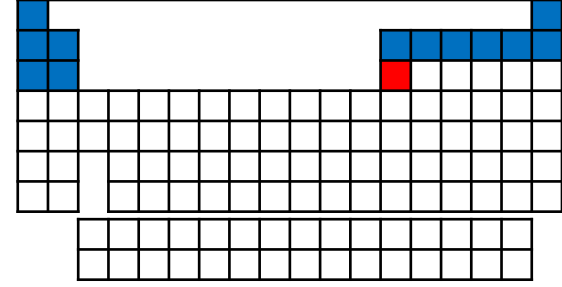
s

p

d

Al

[Ne]3s²3p

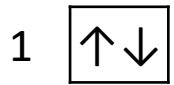
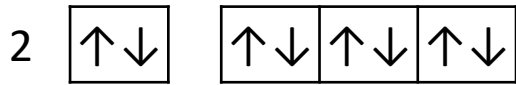
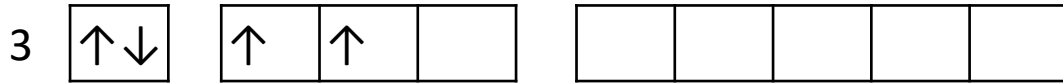
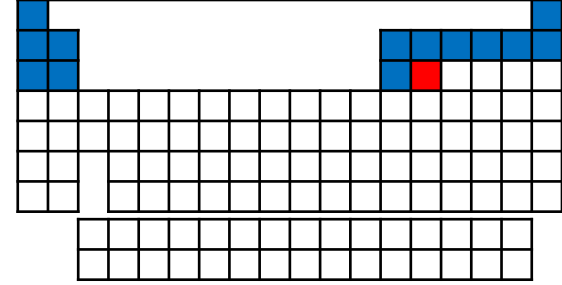
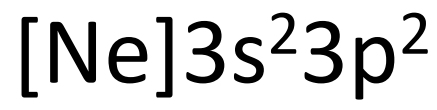


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Si

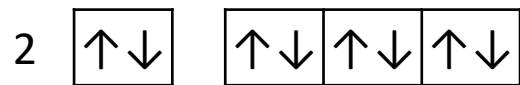
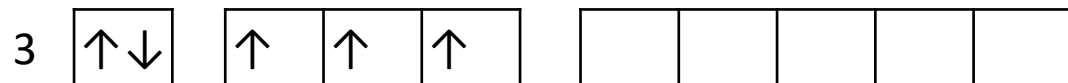
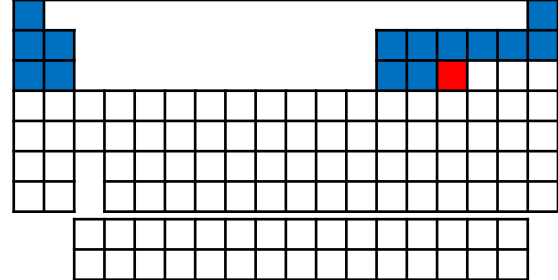
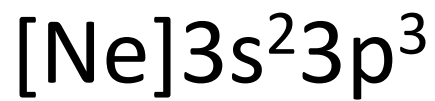


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P

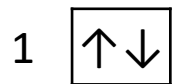
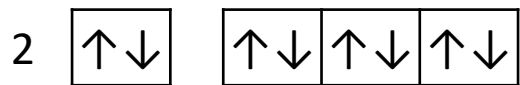
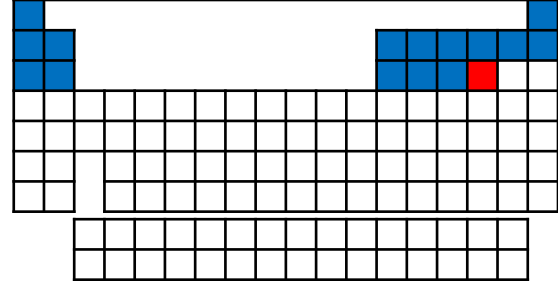
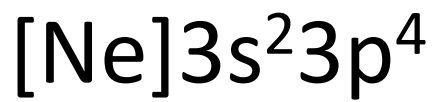


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S

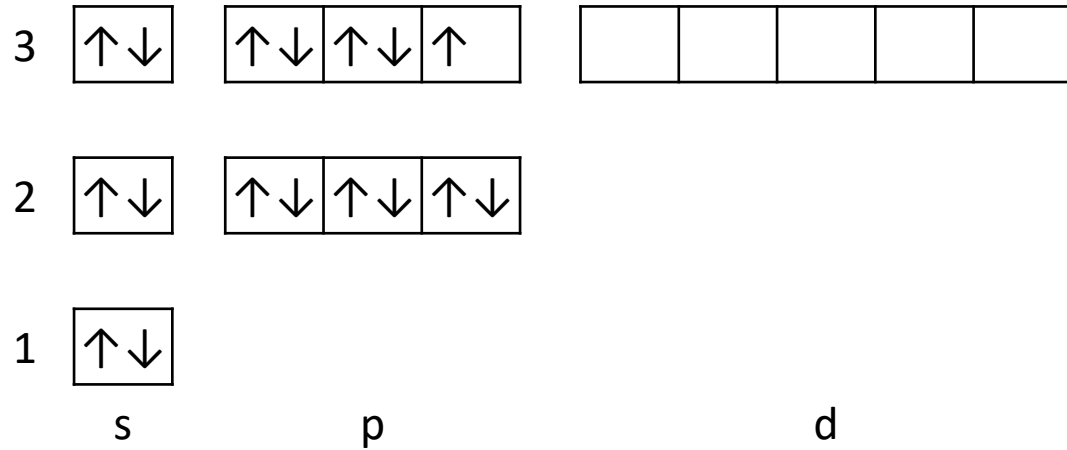
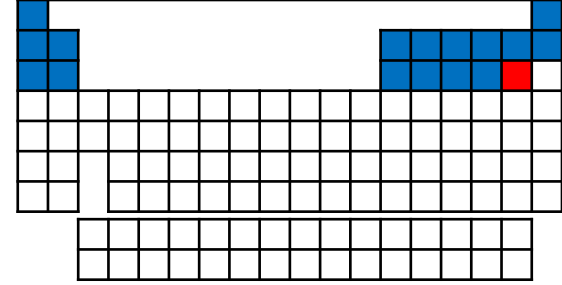
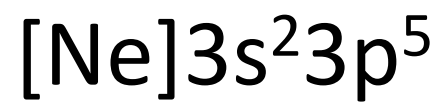


s

p

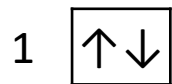
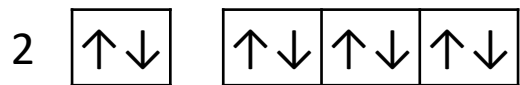
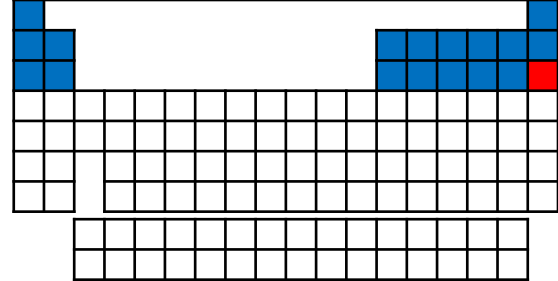
d

Cl



Ar

[Ne]3s²3p⁶



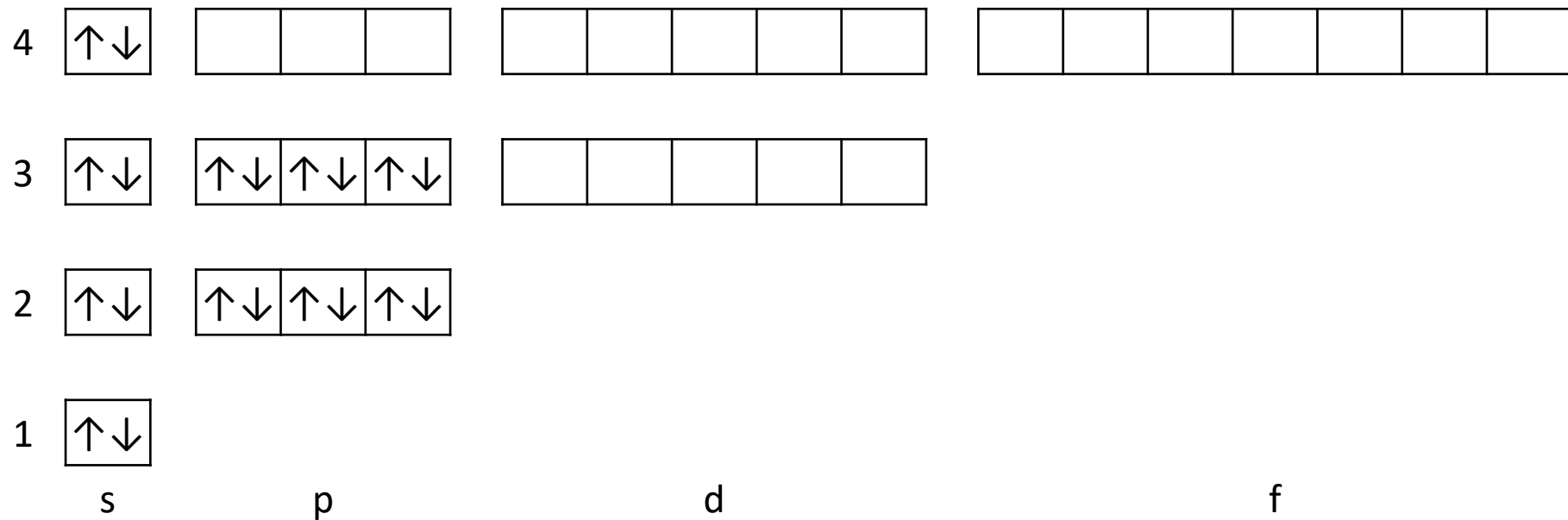
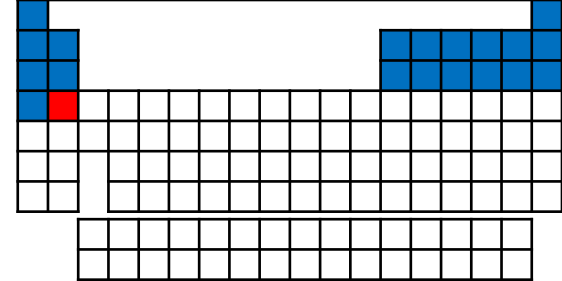
s

p

d

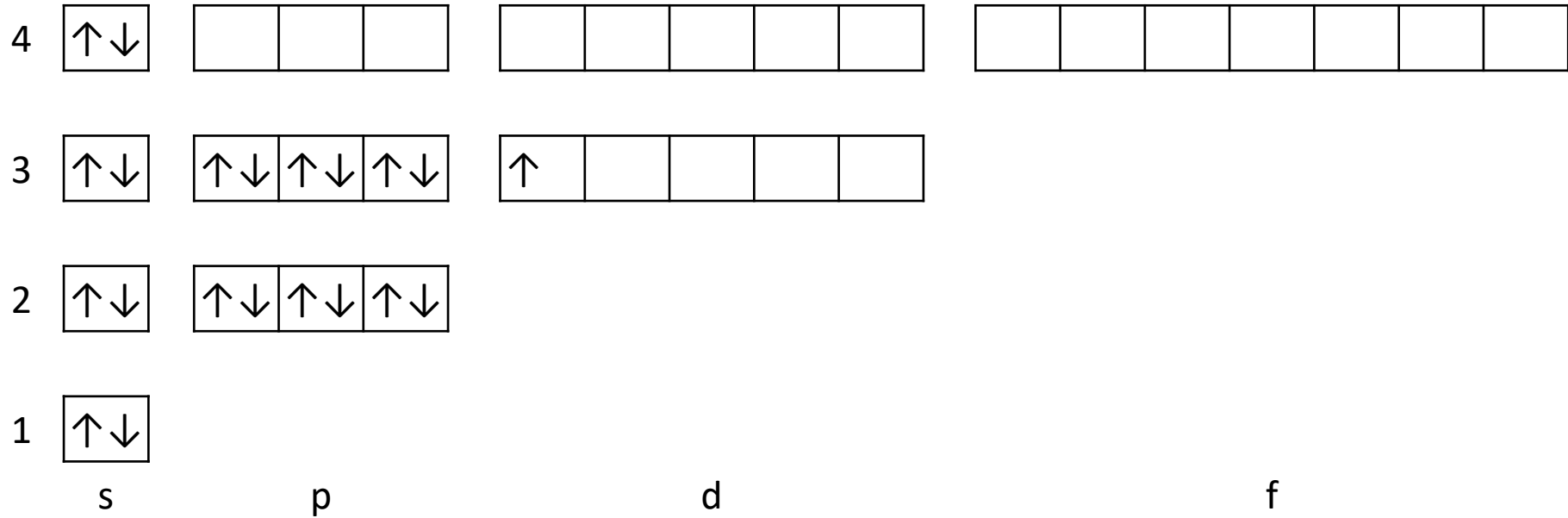
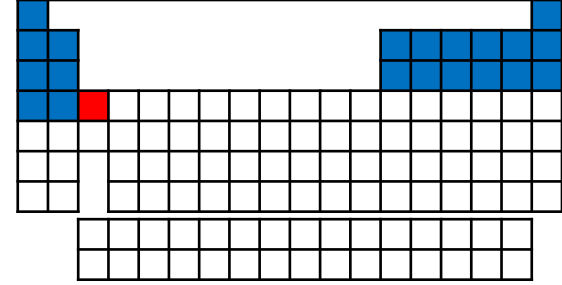
Ca

[Ar]4s²

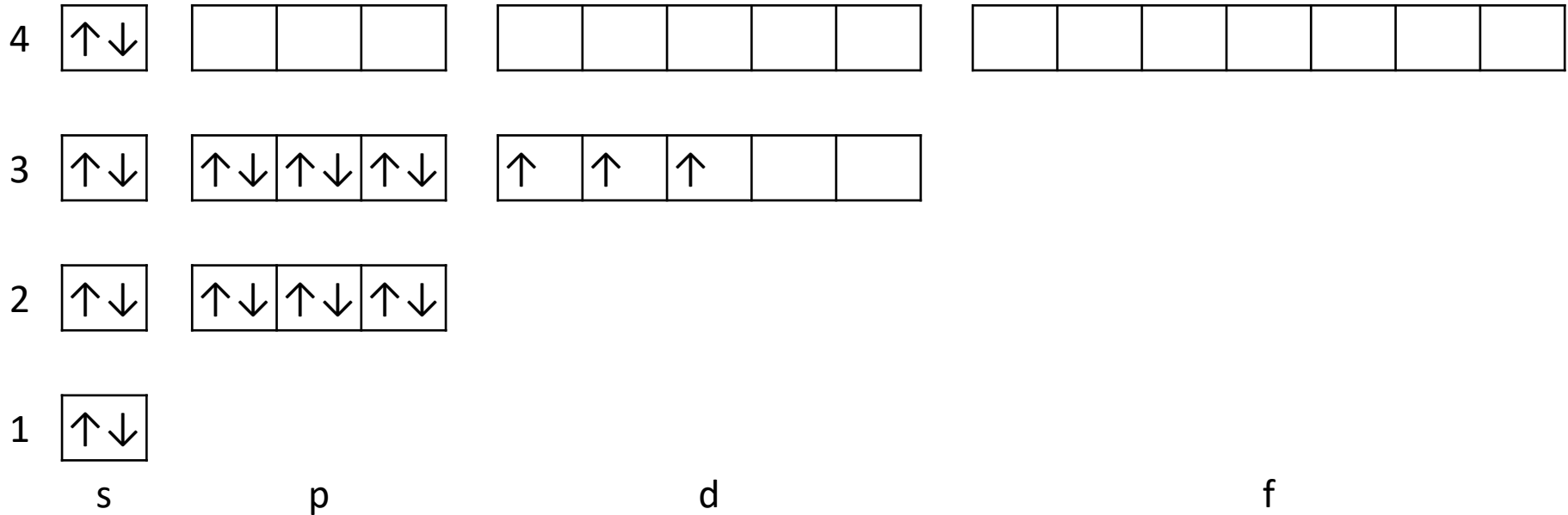
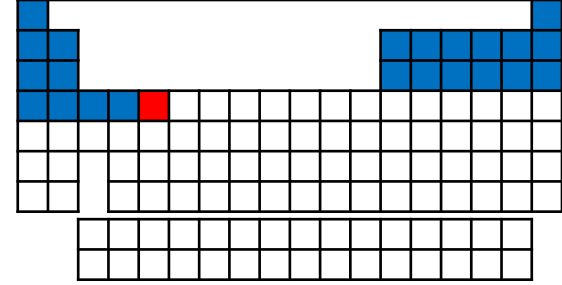


Sc

[Ar]3d4s²

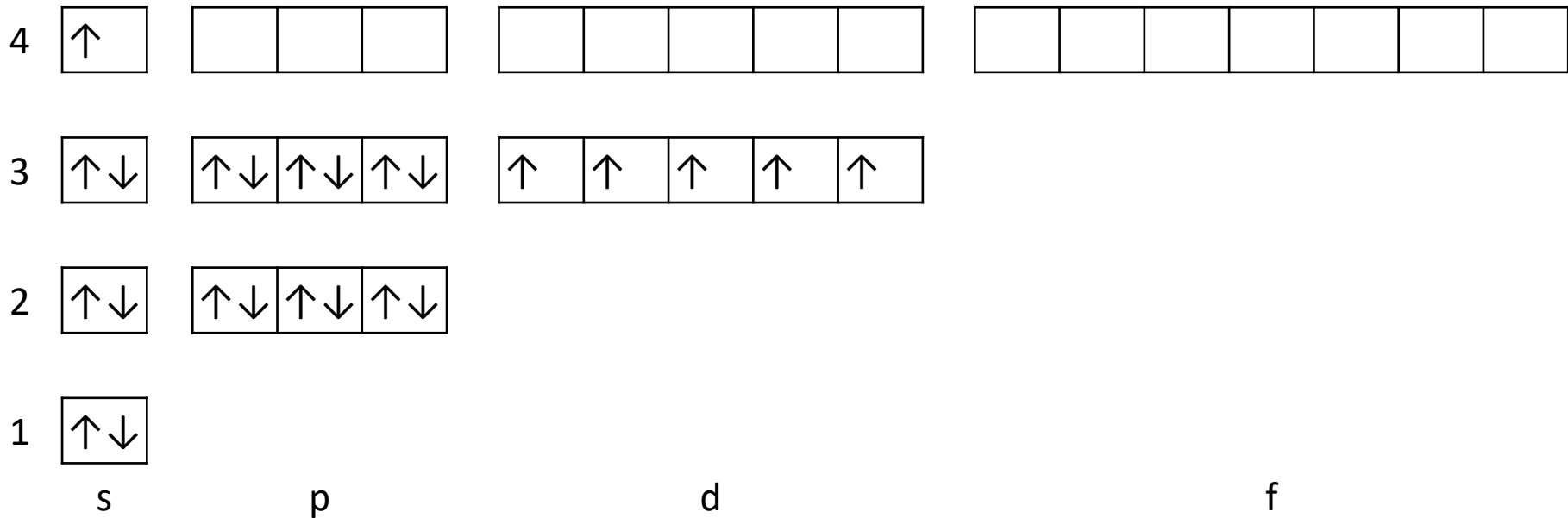
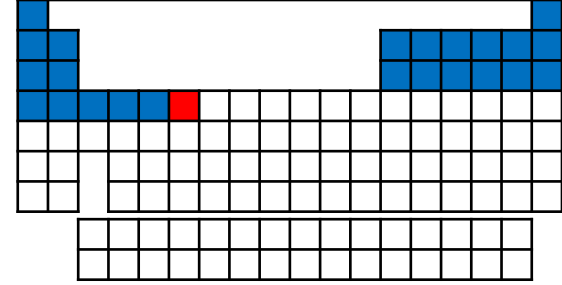


V

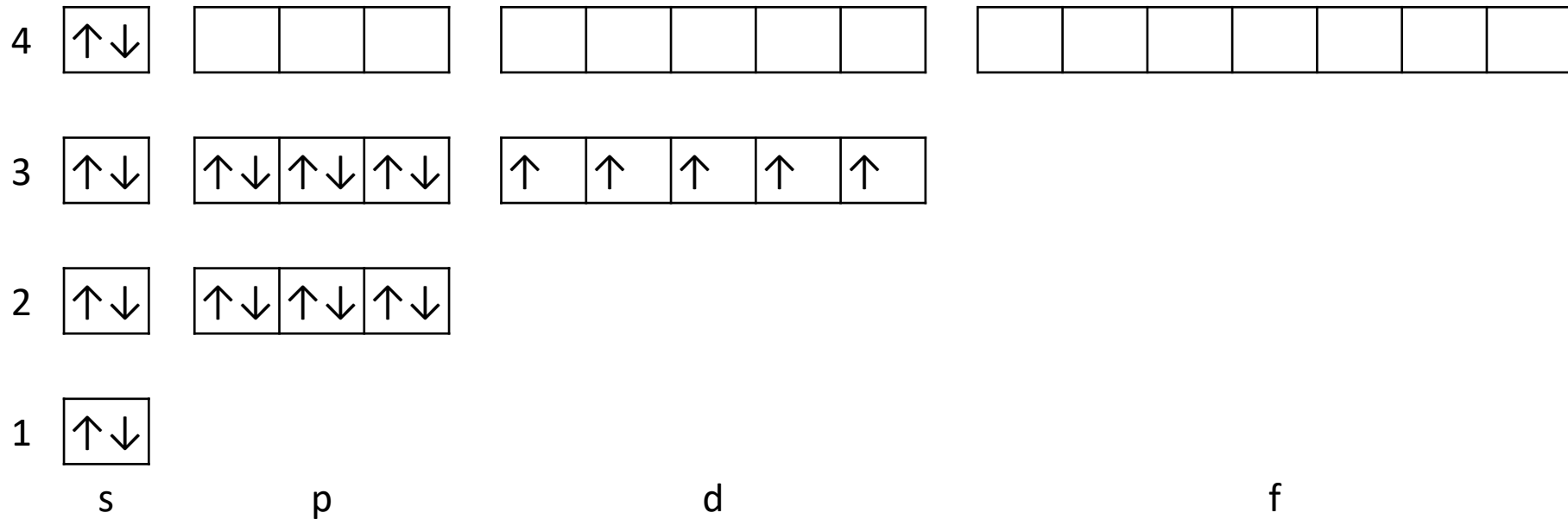
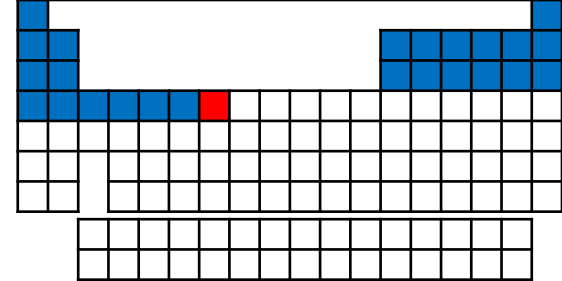


Cr

[Ar]3d⁵4s

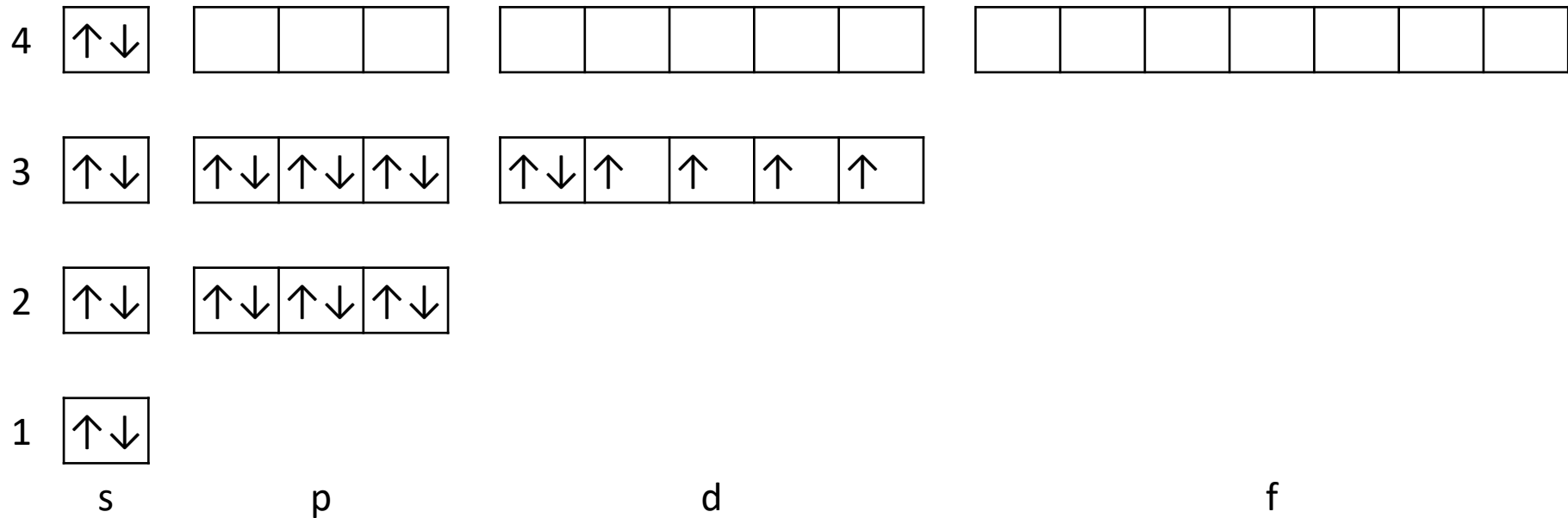
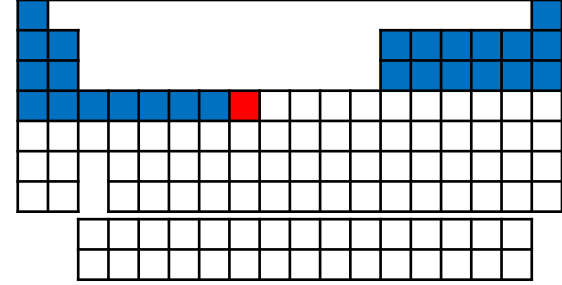


Mn



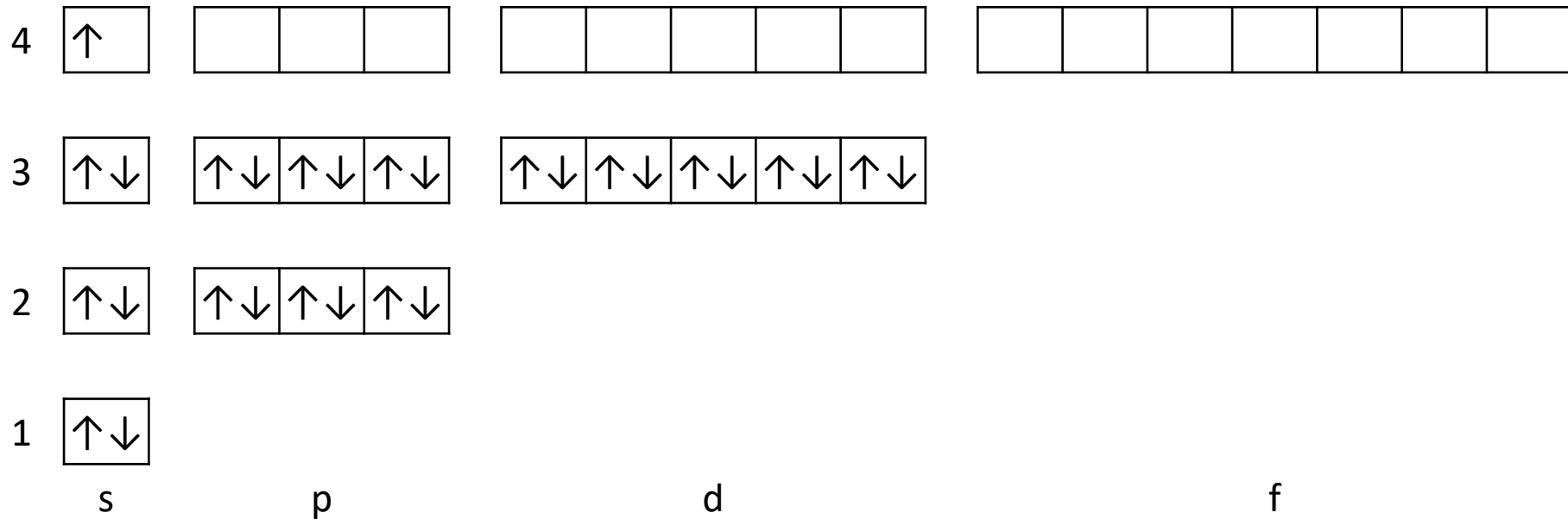
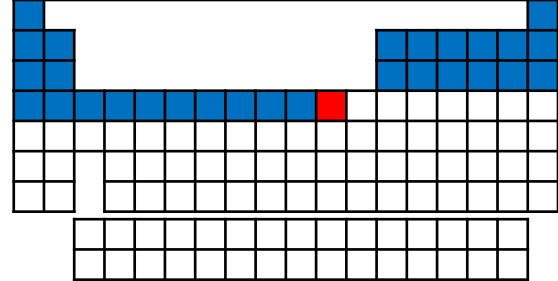
Fe

[Ar]3d⁶4s²

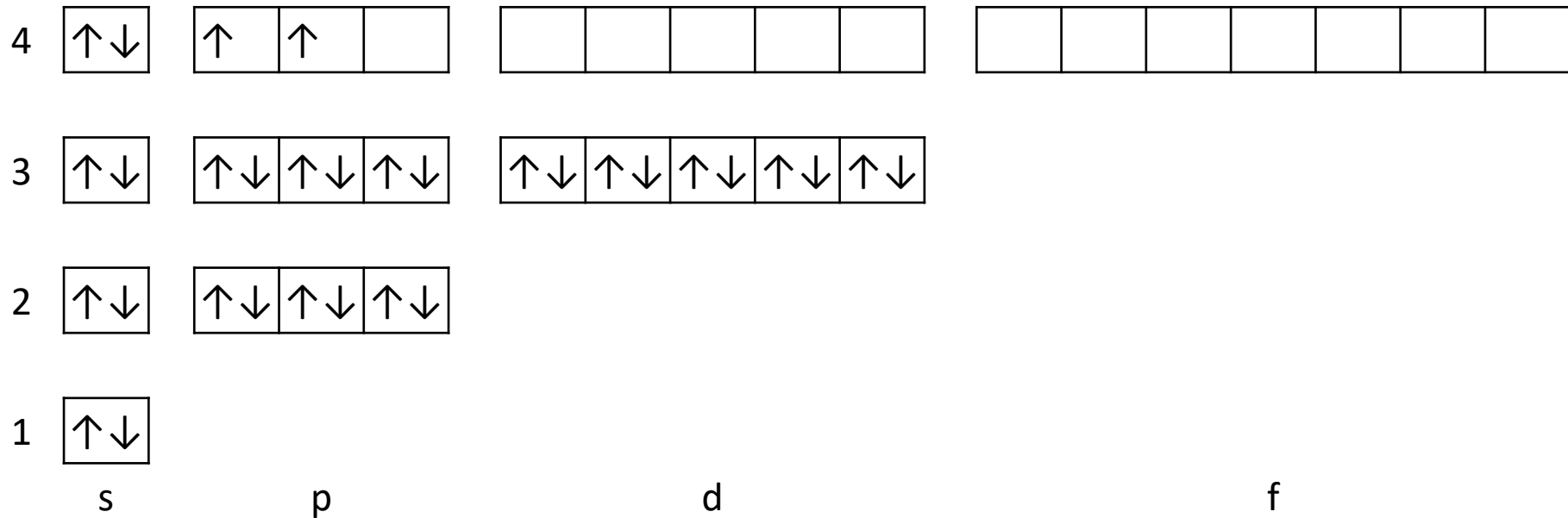
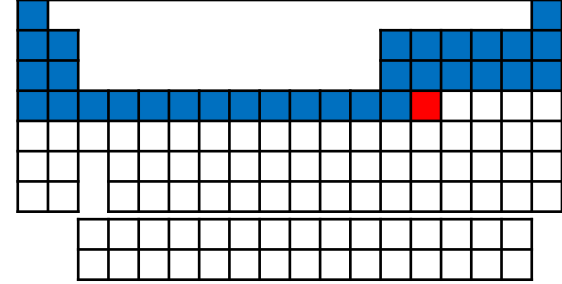
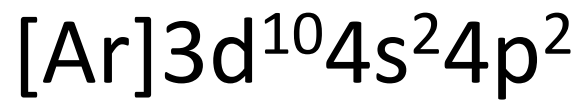


Cu

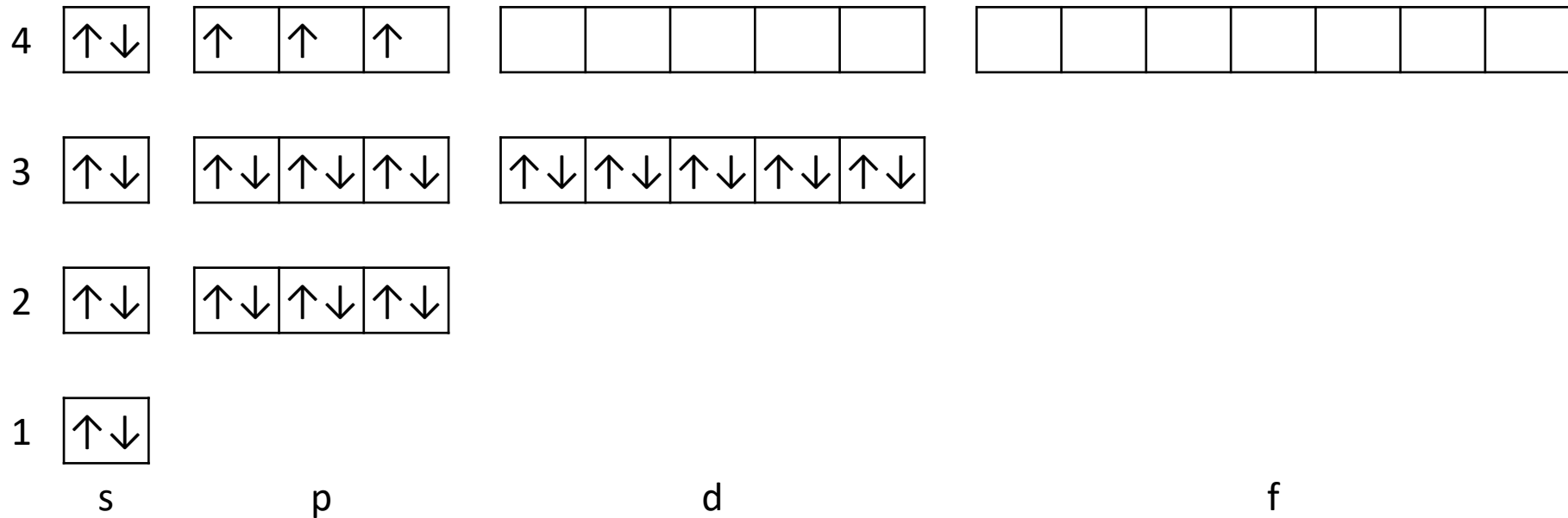
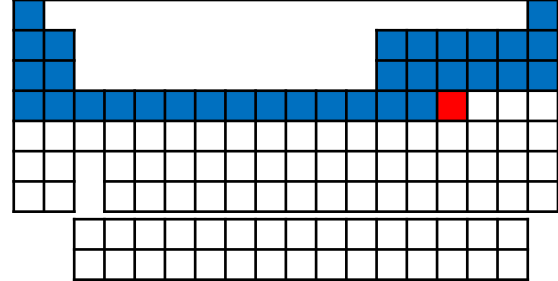
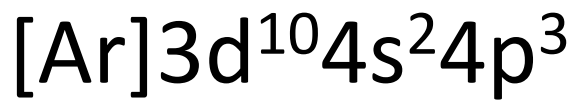
[Ar]3d¹⁰4s



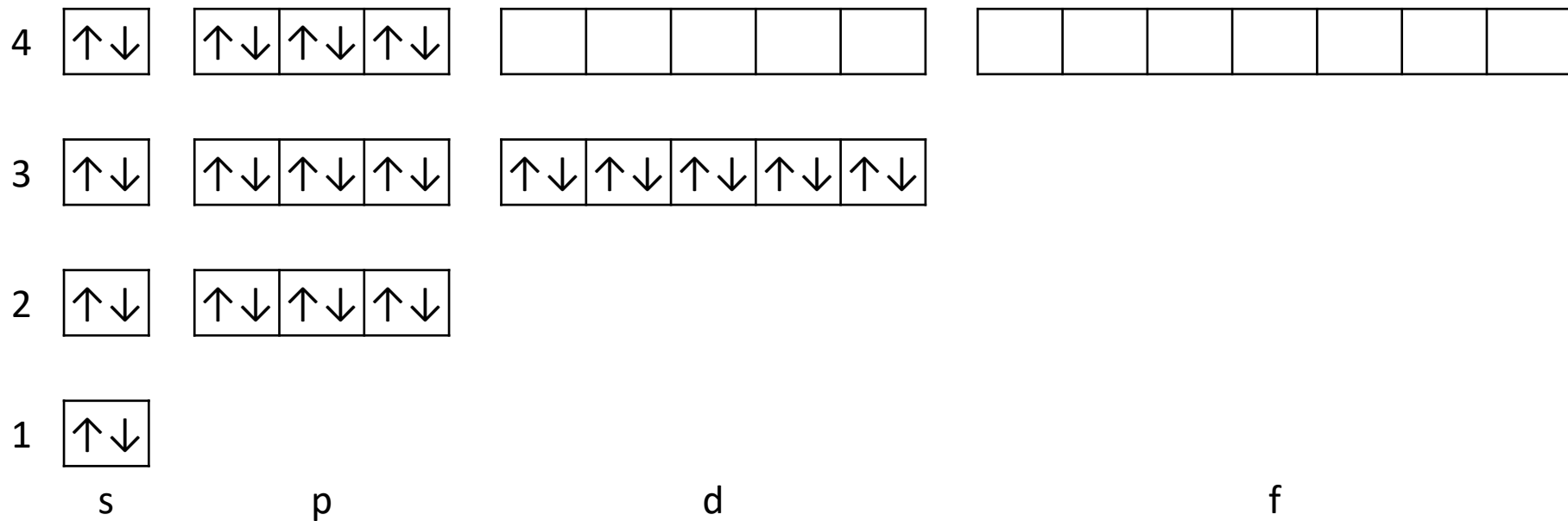
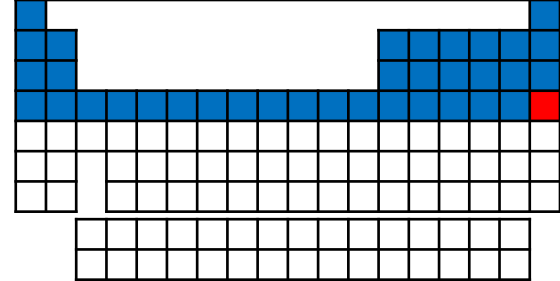
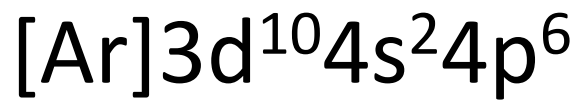
Ge



As

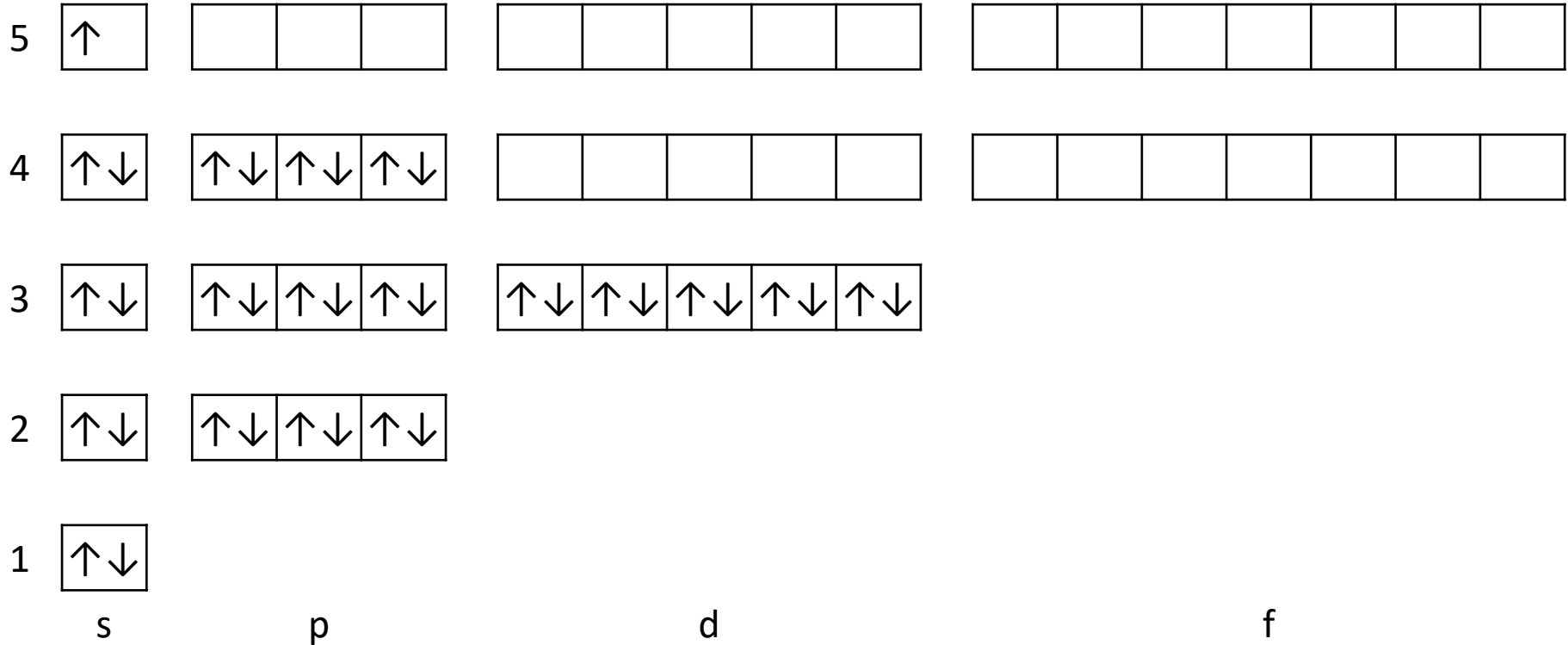
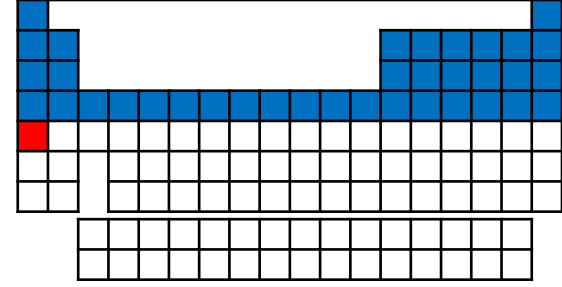


Kr



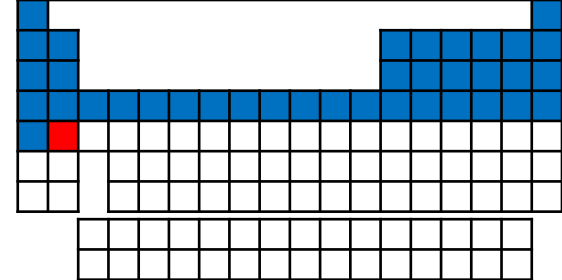
Rb

[Kr]5s

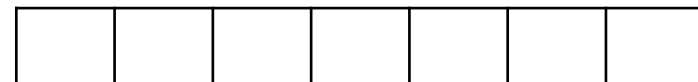
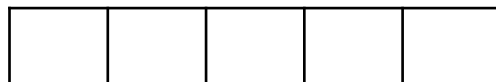
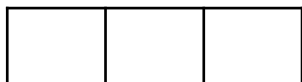
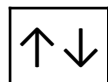


Sr

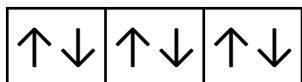
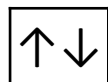
[Kr]5s²



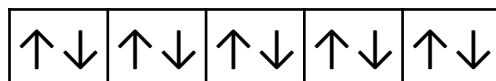
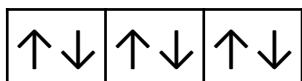
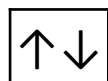
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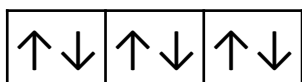
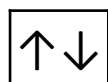
4



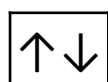
3



2



1



s

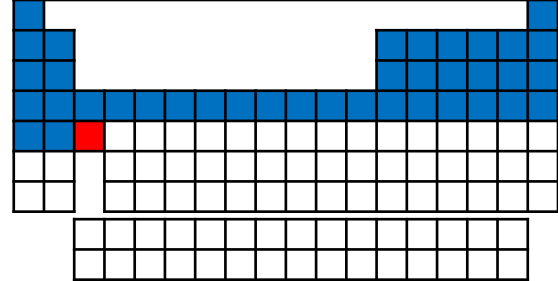
p

d

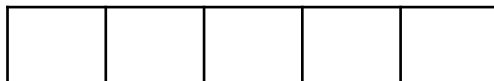
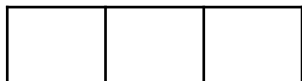
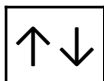
f

Y

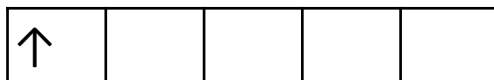
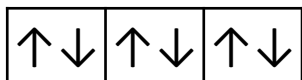
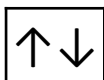
[Kr]4d5s²



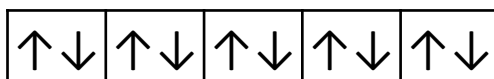
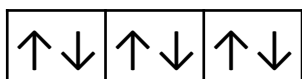
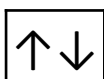
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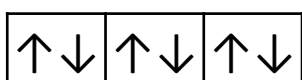
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s

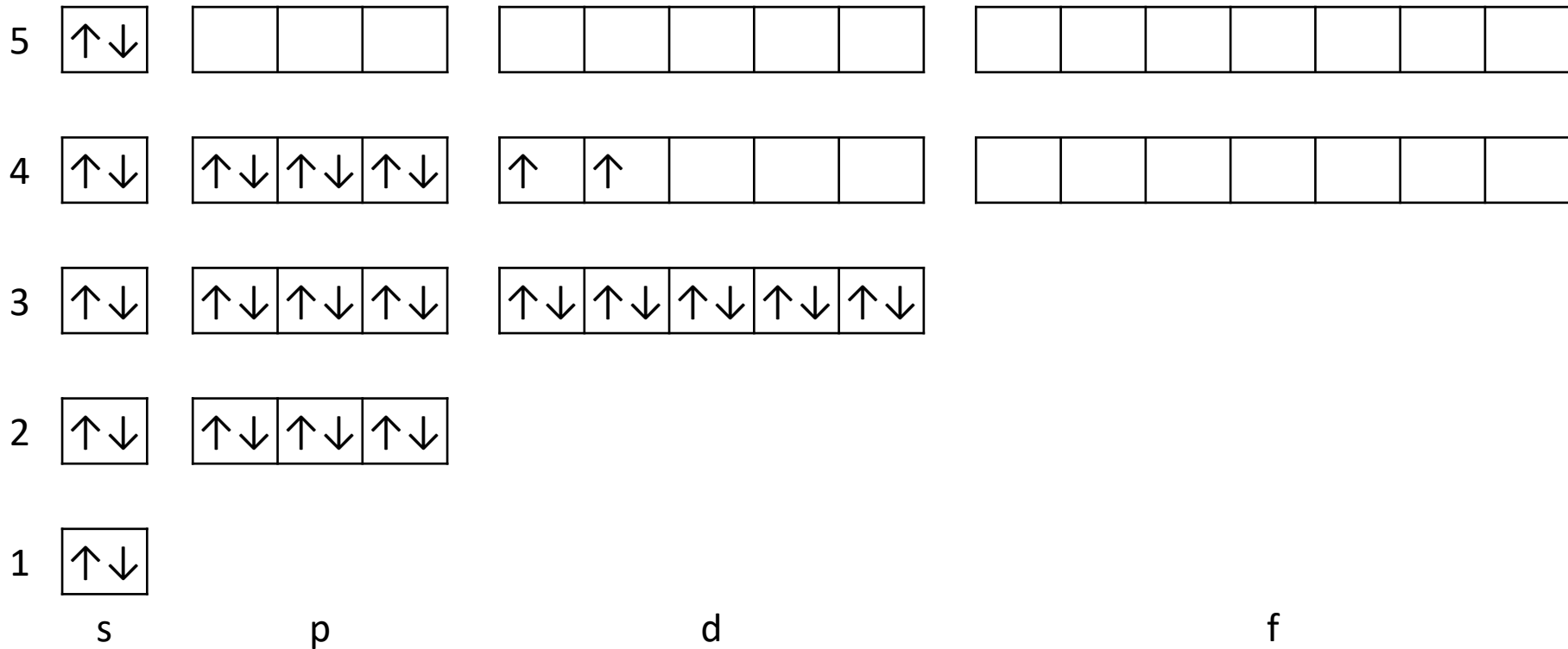
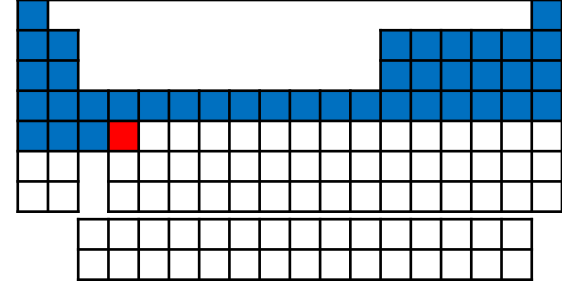
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f

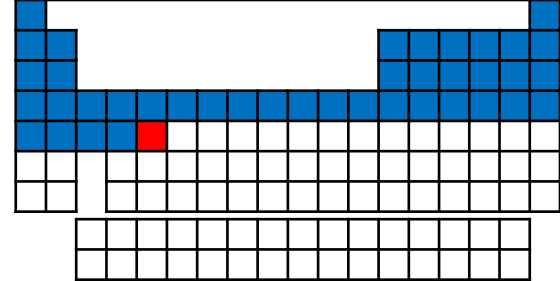
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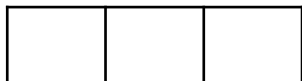
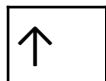


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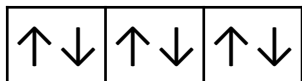
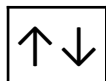
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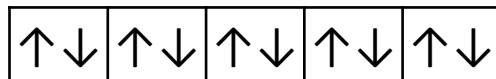
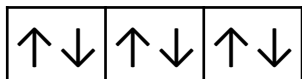
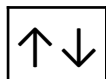
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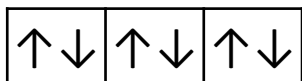
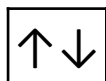
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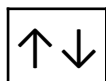
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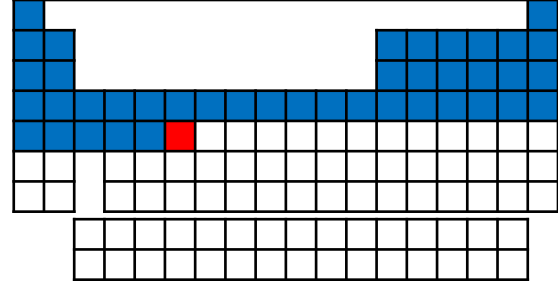
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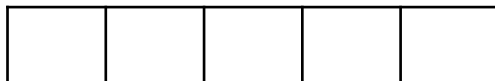
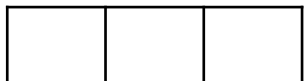
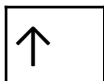
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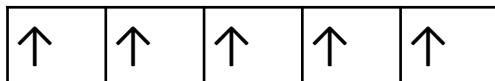
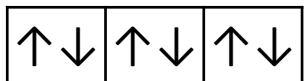
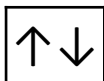
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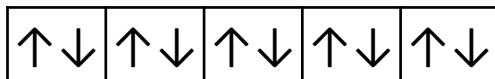
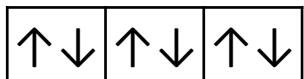
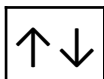
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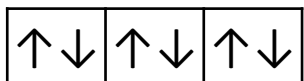
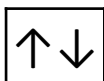
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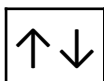
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s

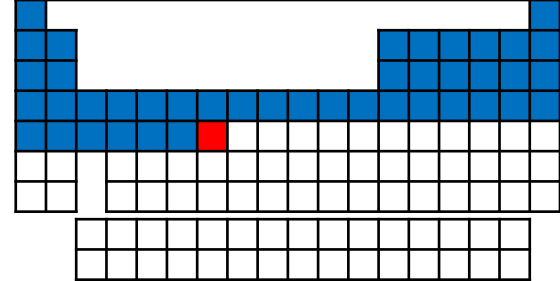
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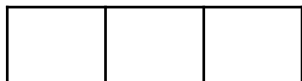
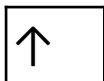
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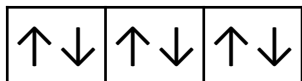
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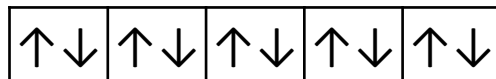
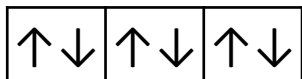
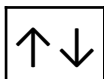
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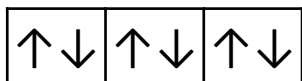
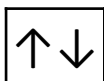
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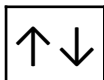
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s

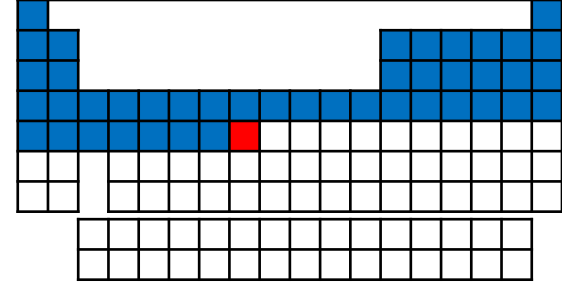
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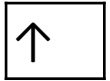
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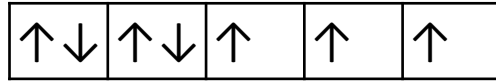
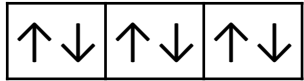
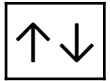
[Kr]4d⁷5s



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s

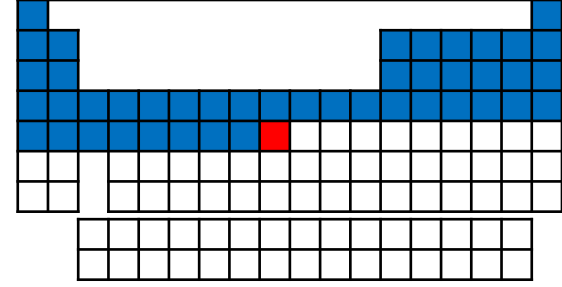
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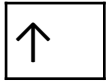
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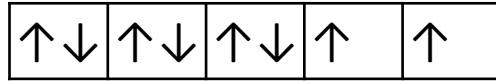
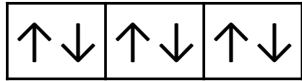
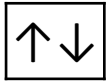
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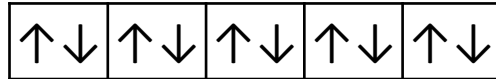
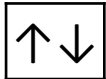
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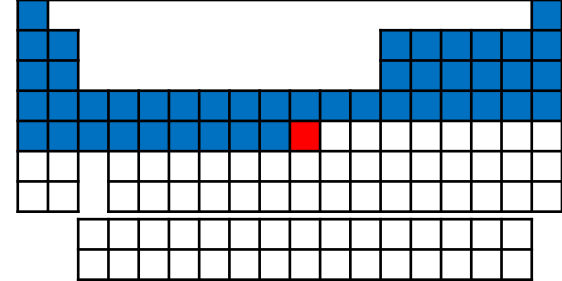
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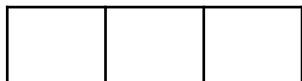
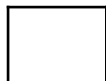
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Pd

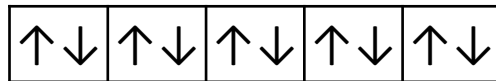
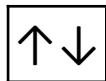
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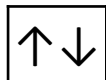
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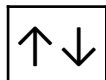
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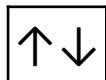
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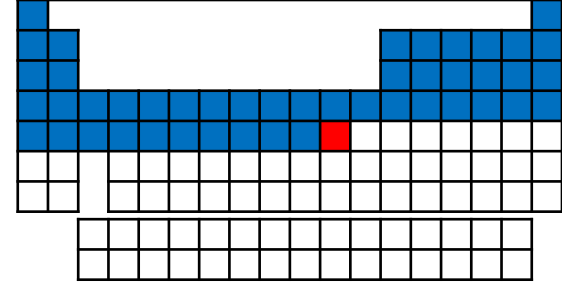
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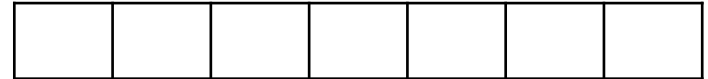
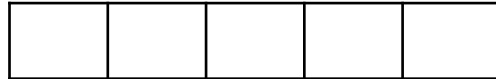
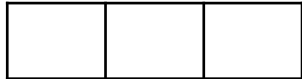
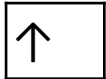
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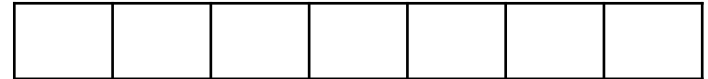
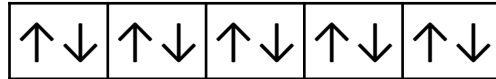
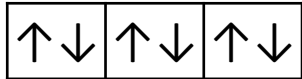
[Kr]4d¹⁰5s



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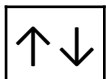
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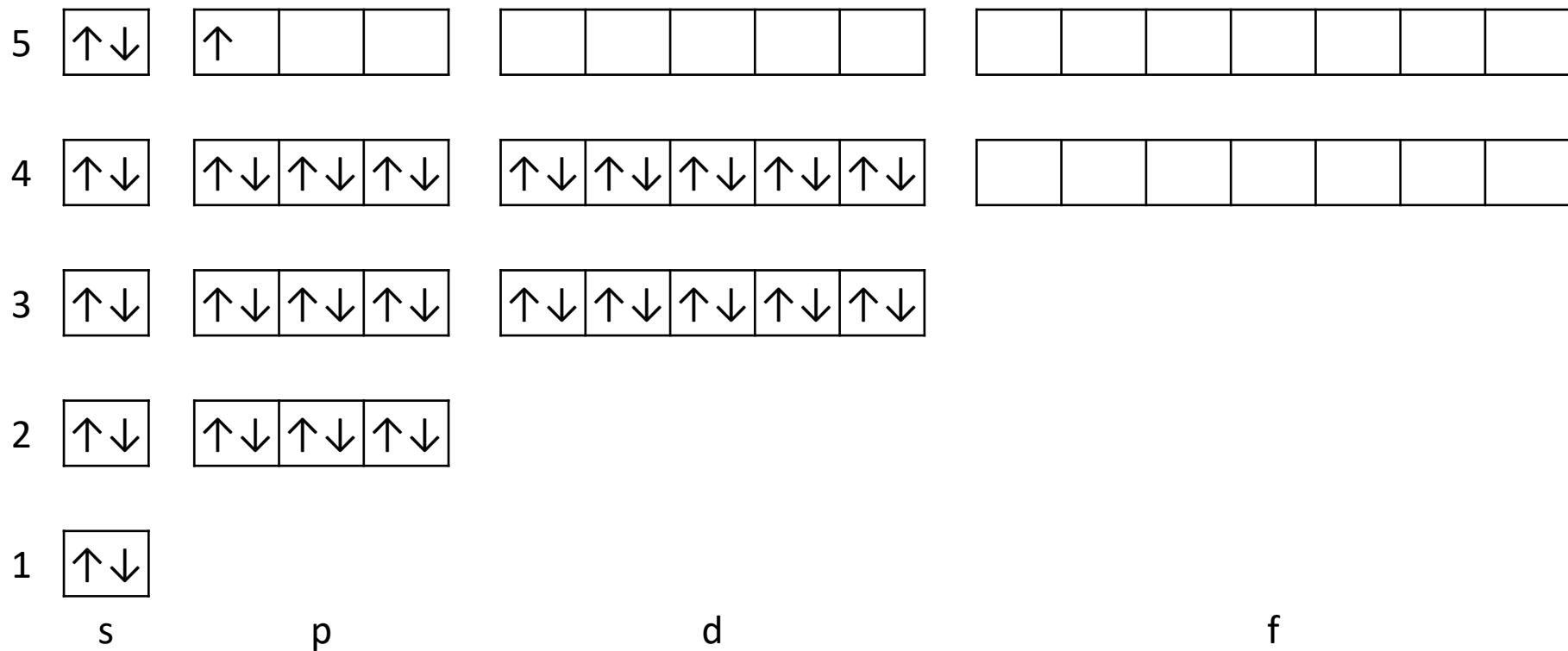
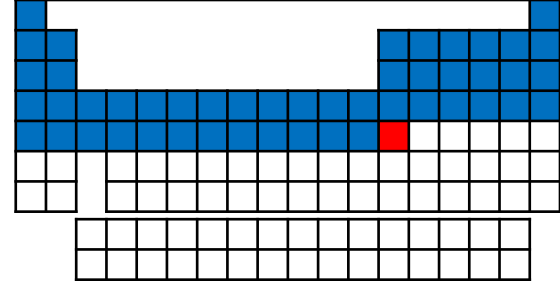
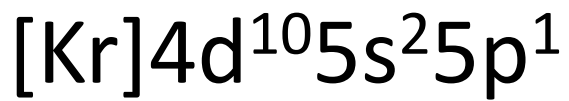
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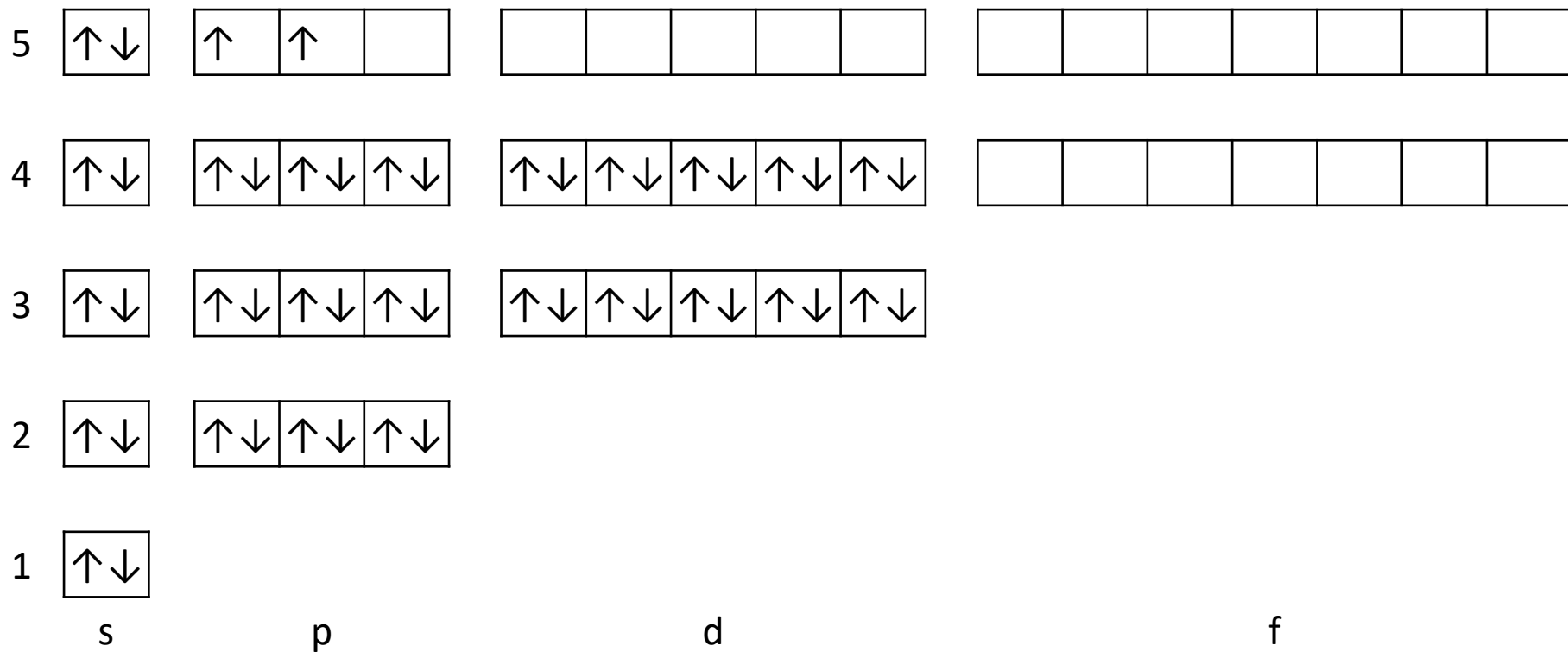
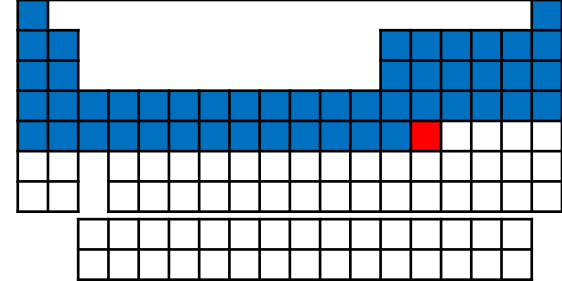
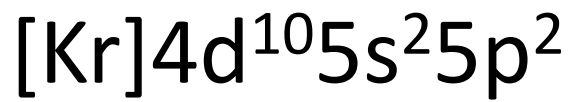
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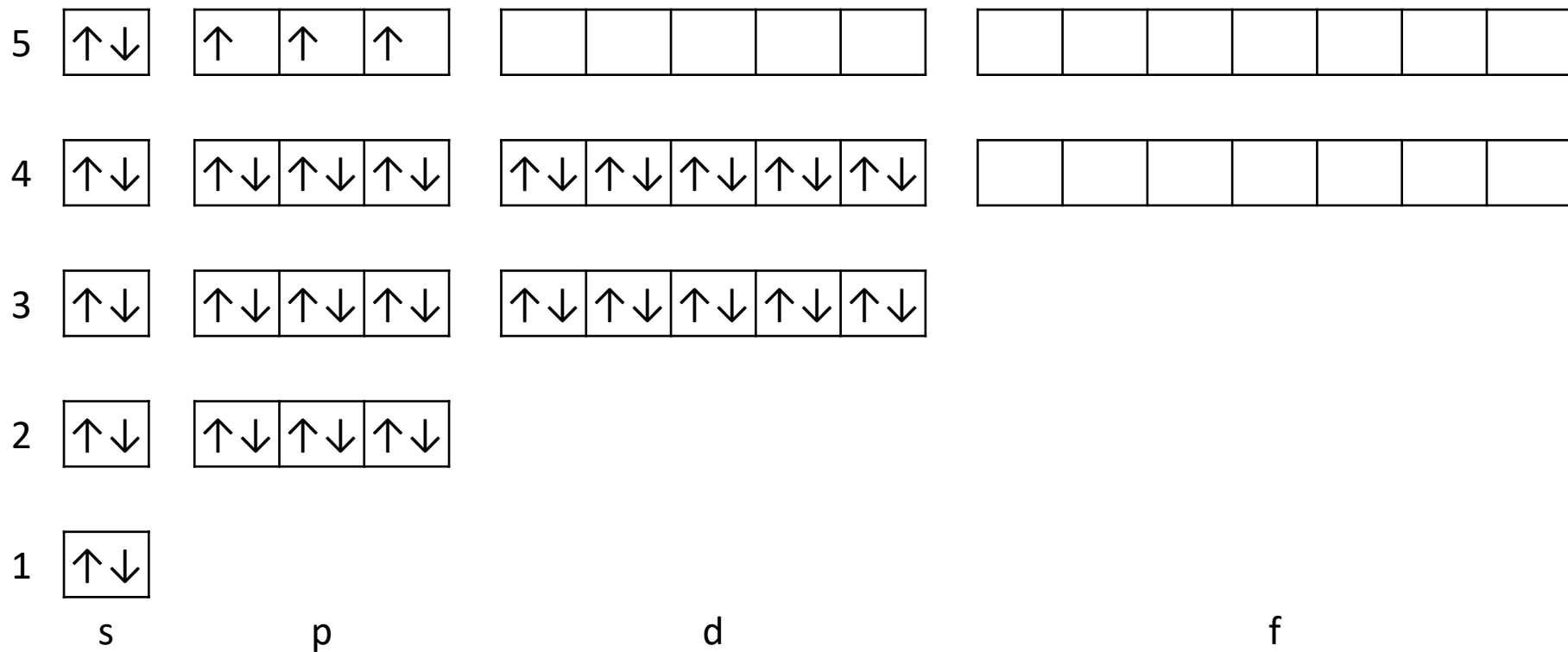
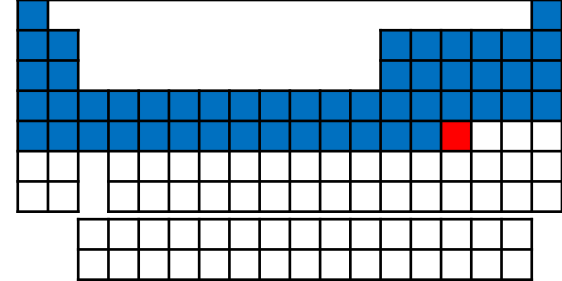
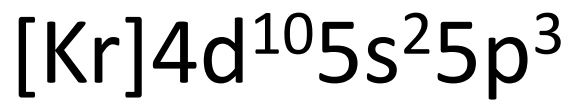
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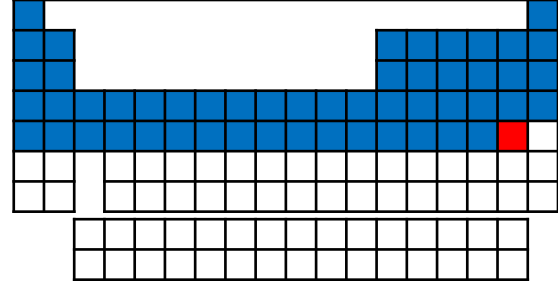
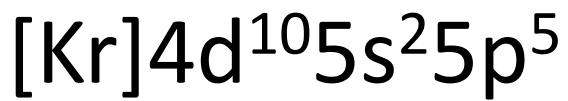
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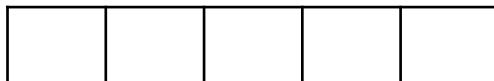
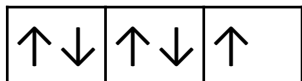
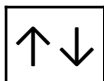
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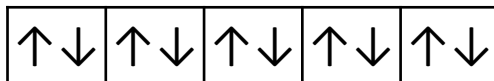
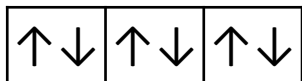
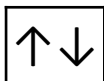
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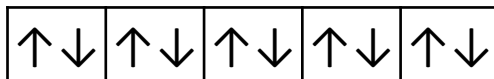
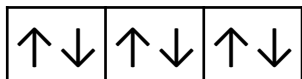
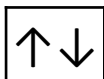
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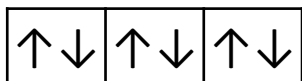
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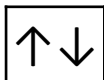
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1



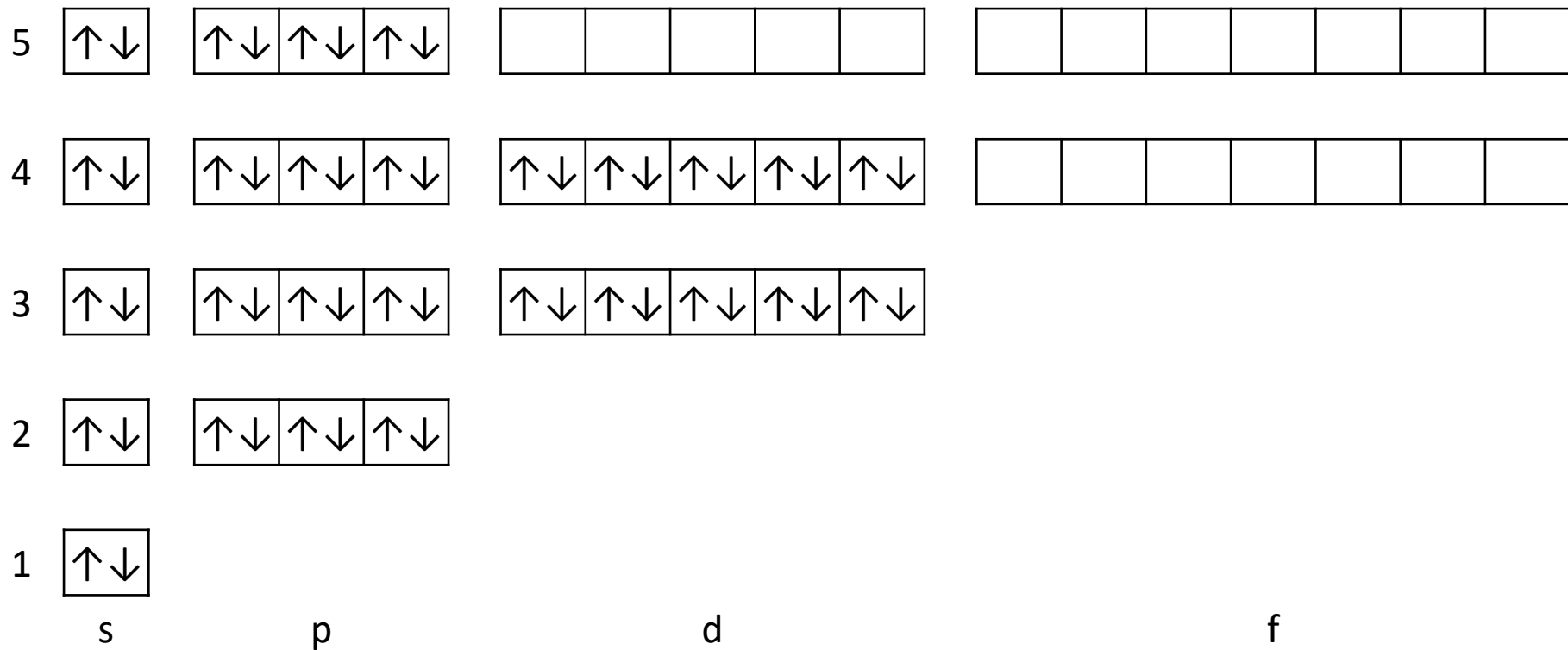
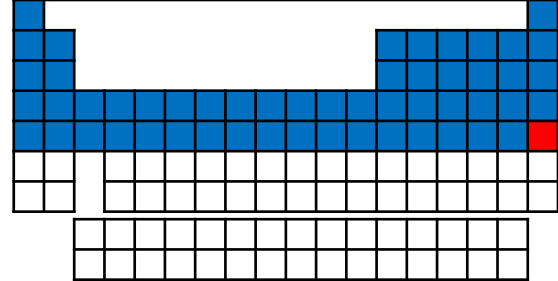
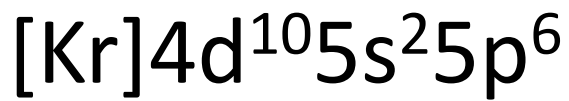
s

p

d

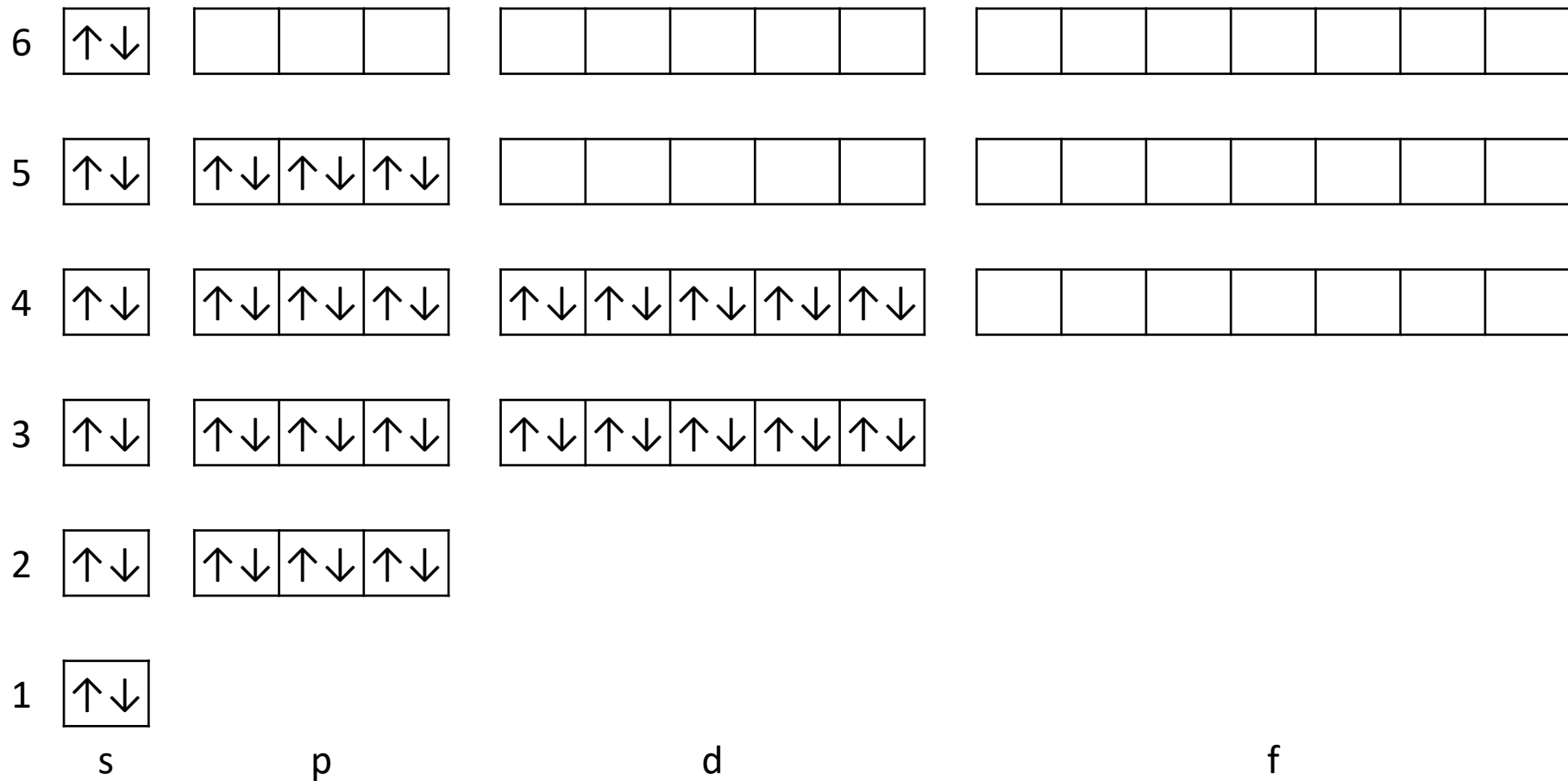
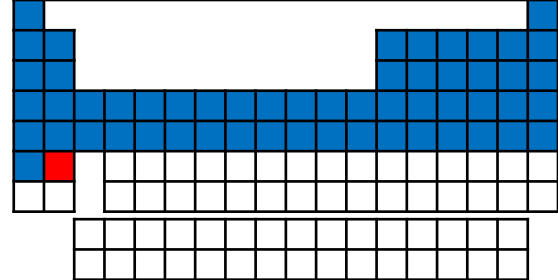
f

Xe



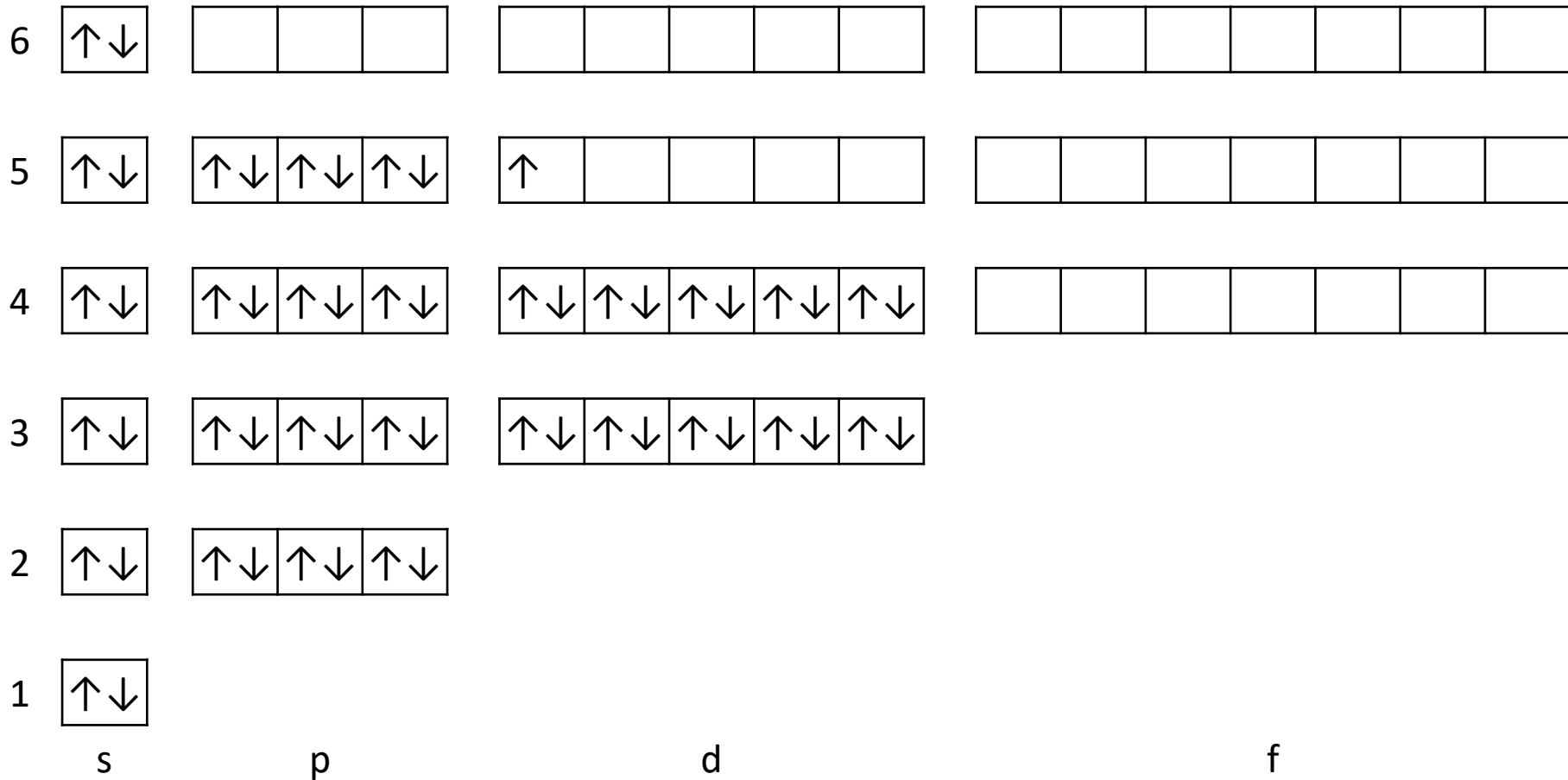
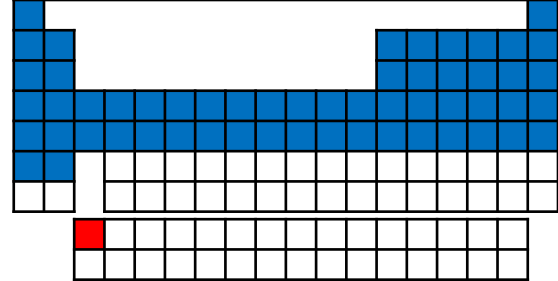
Ba

[Xe]6s²



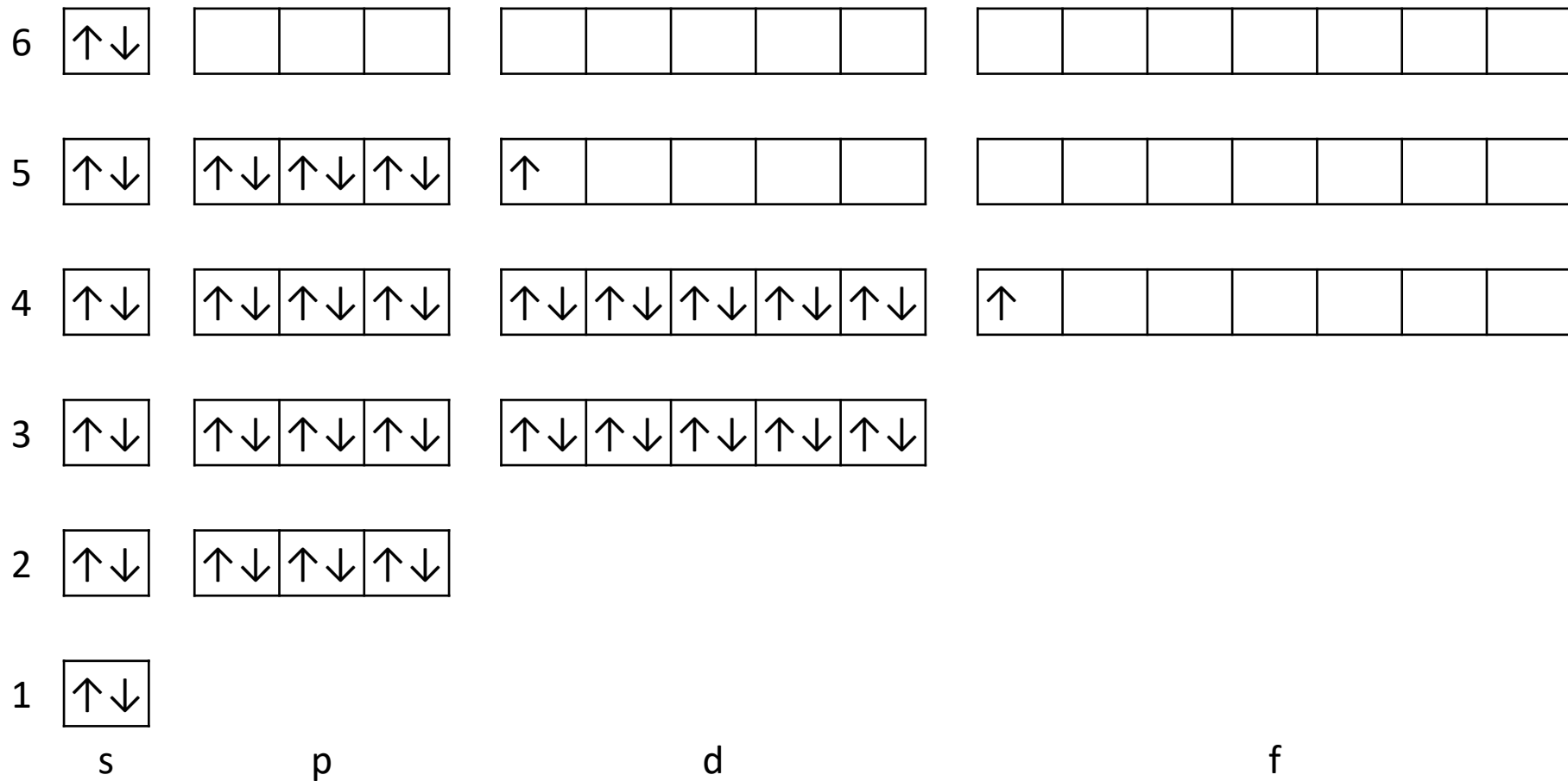
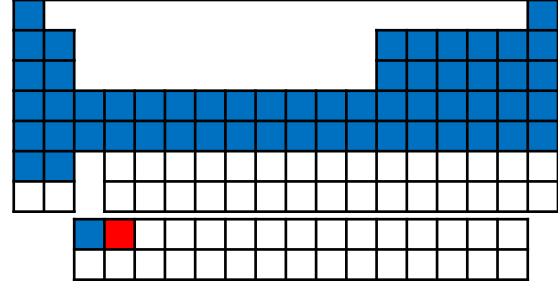
La

[Xe]5d6s²



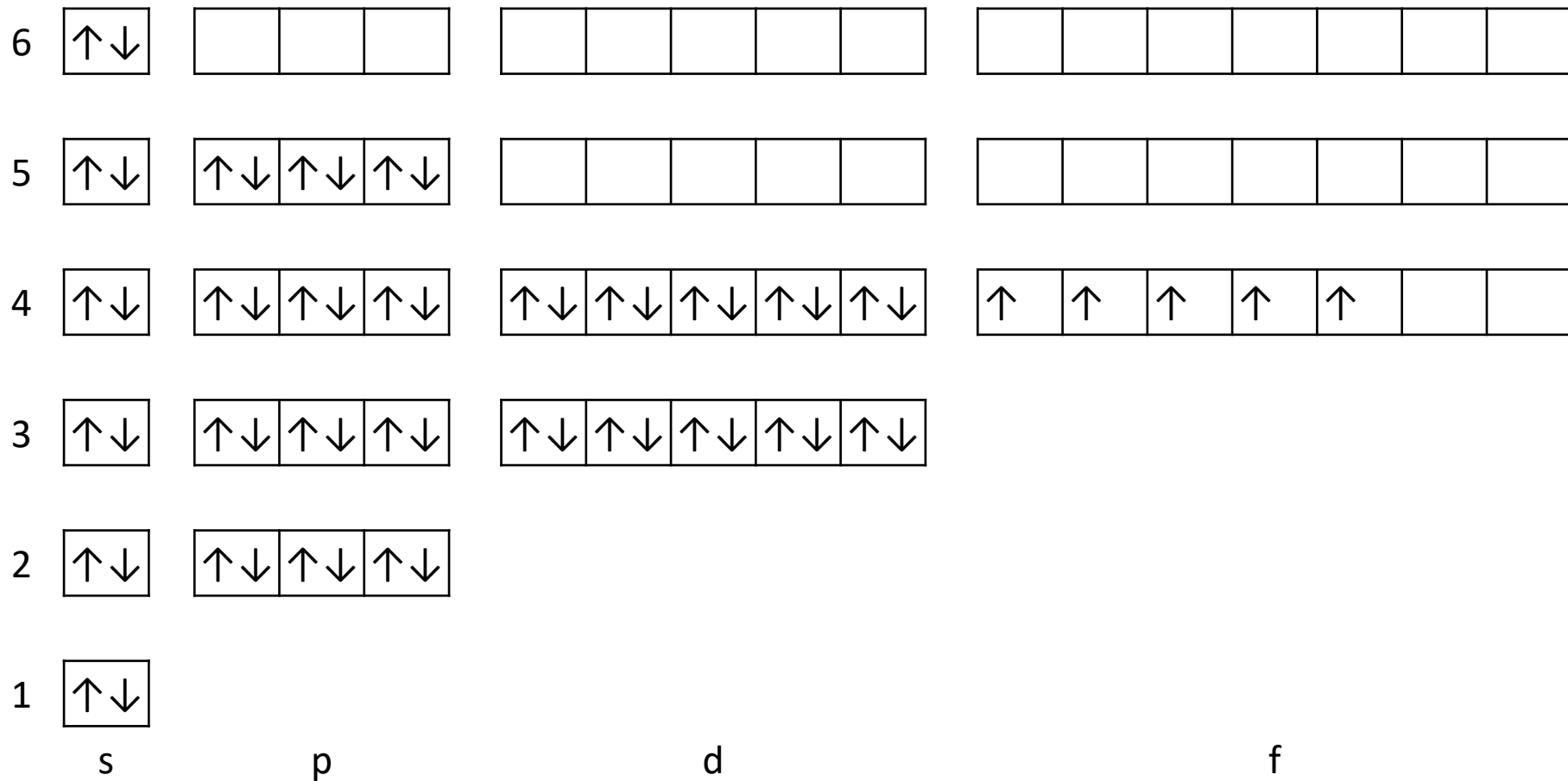
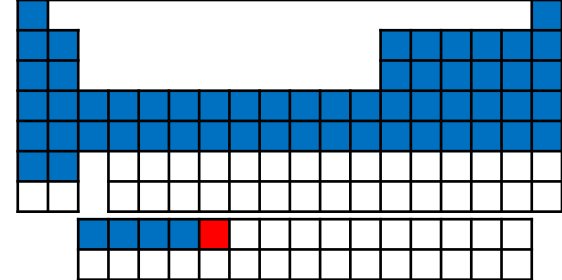
Ce

[Xe]4f5d6s²



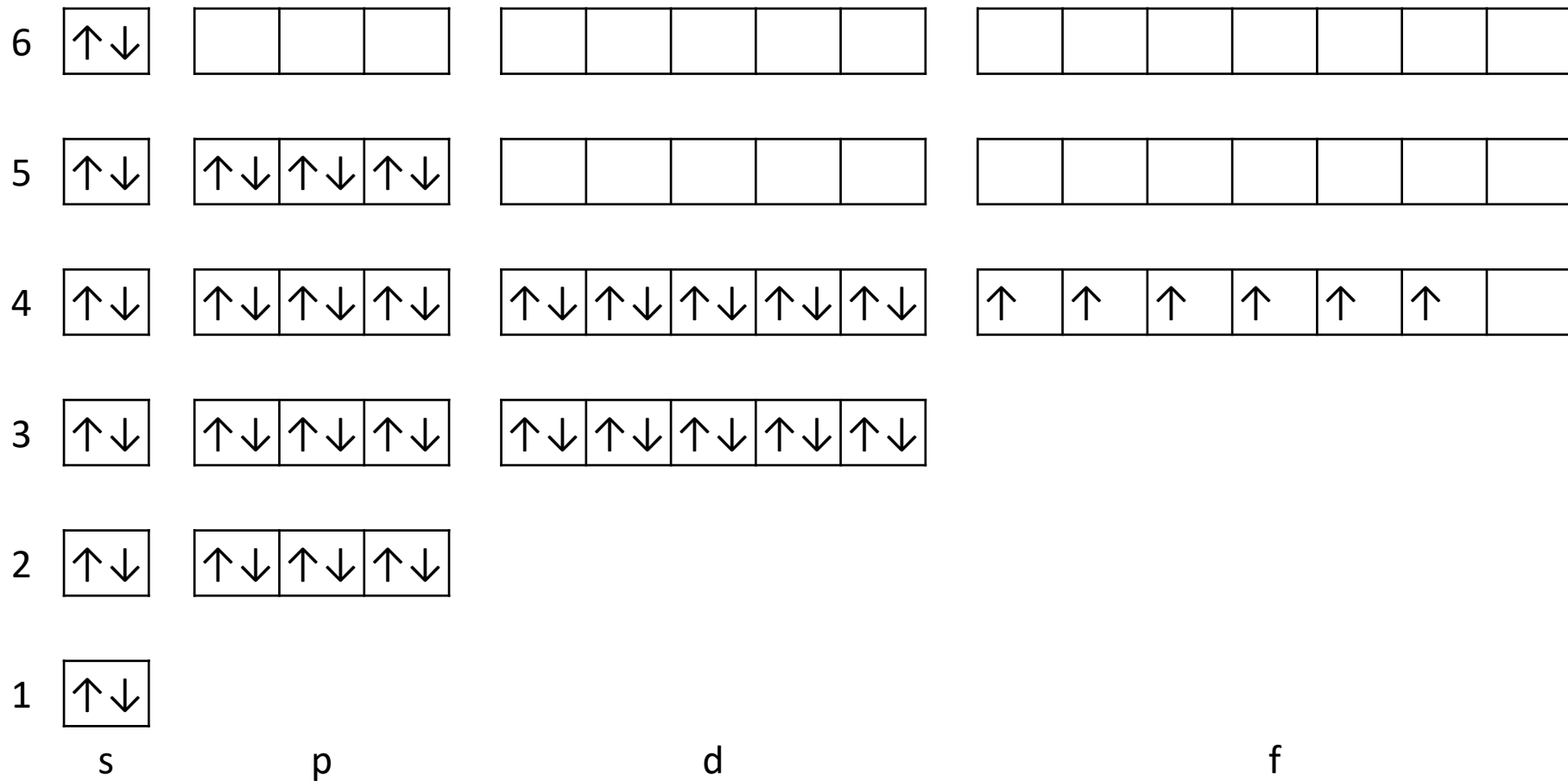
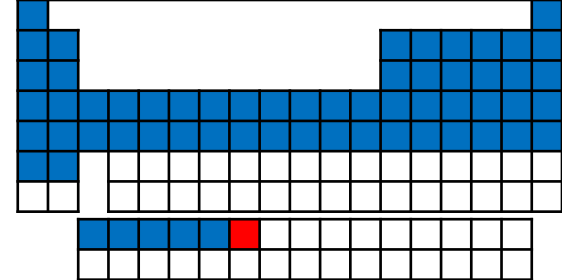
Pm

[Xe]4f⁵6s²



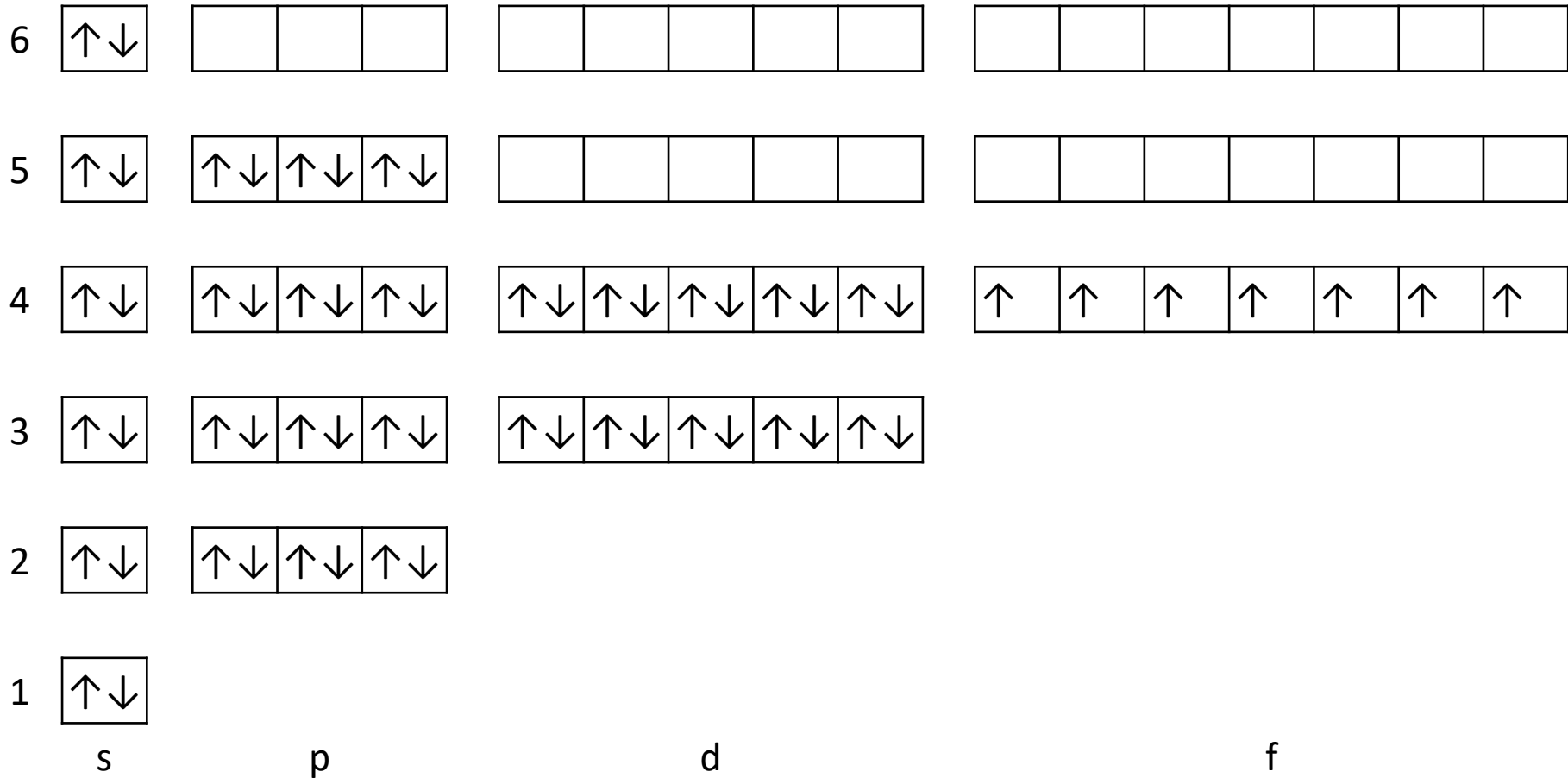
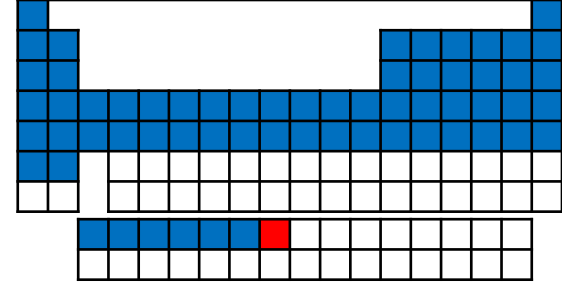
Sm

[Xe]4f⁶6s²

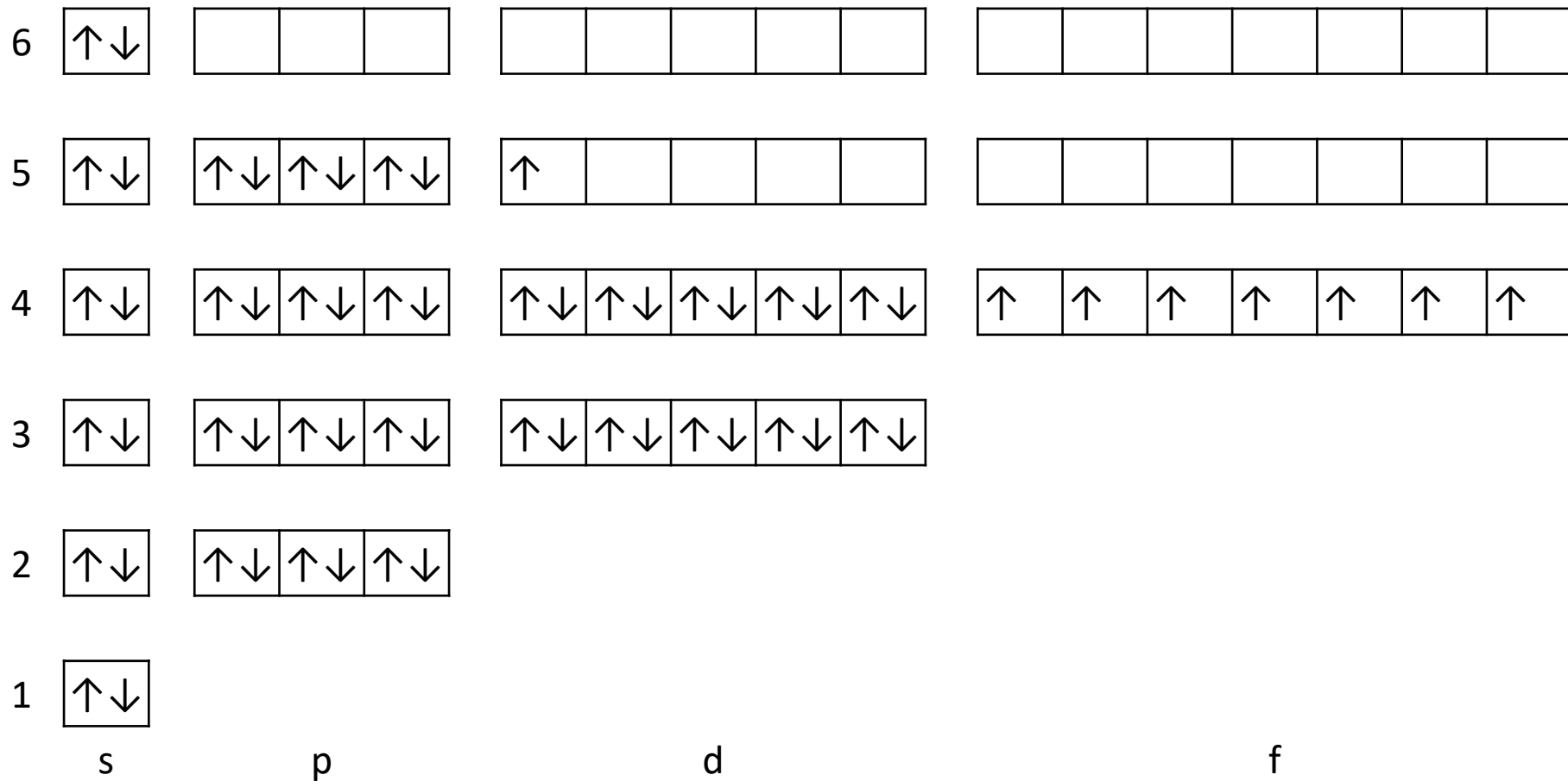
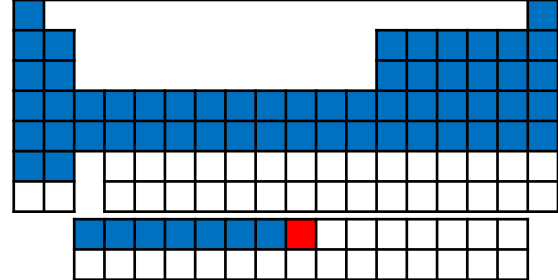
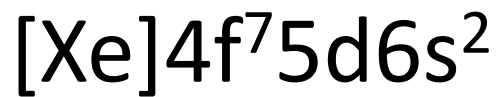


Eu

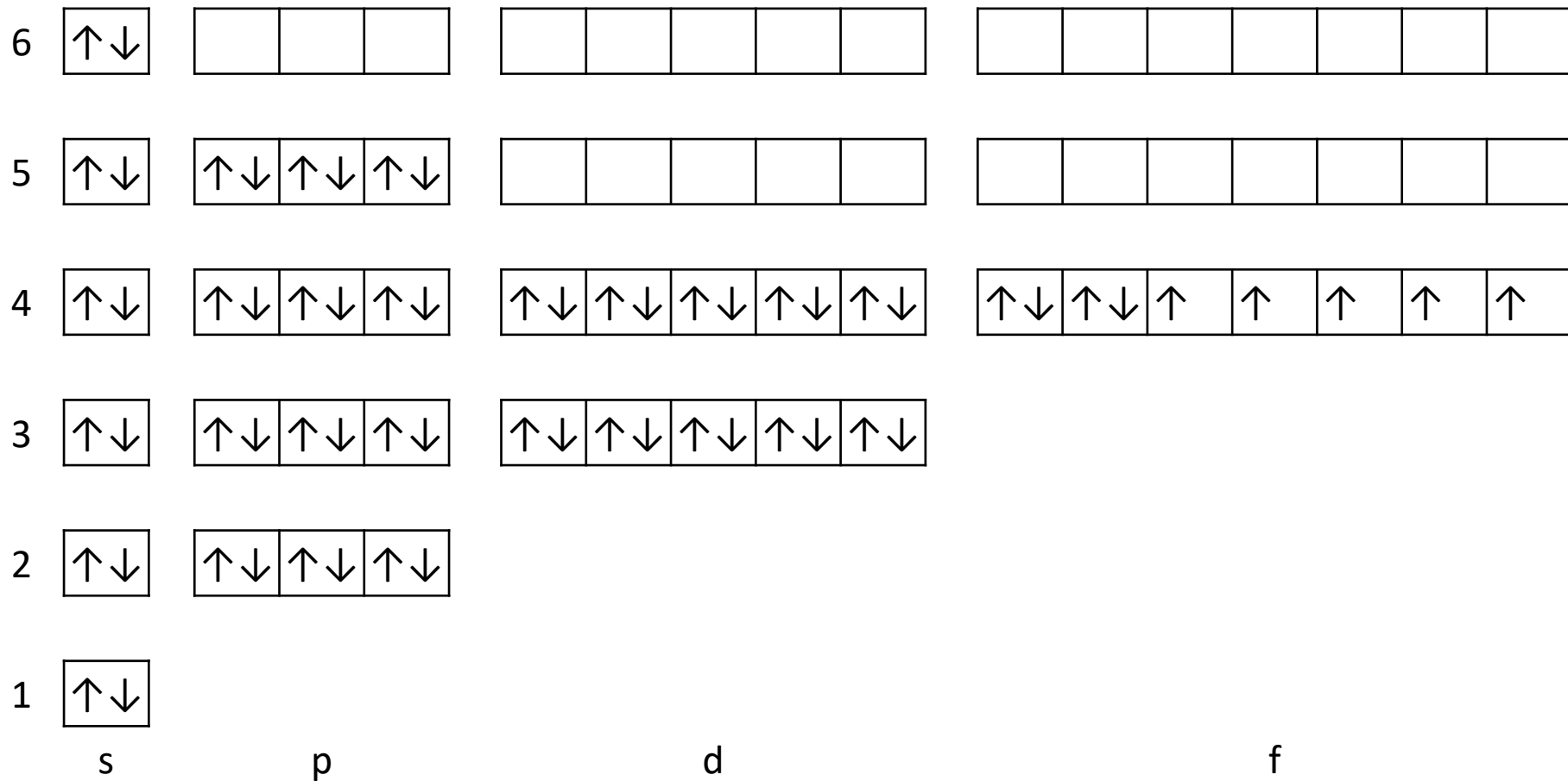
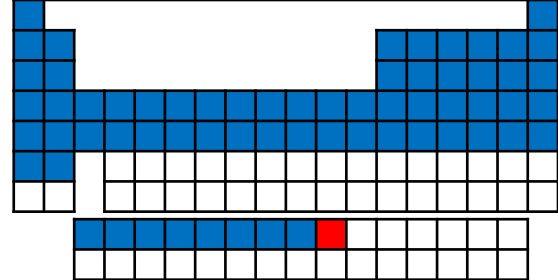
[Xe]4f⁷6s²



Gd

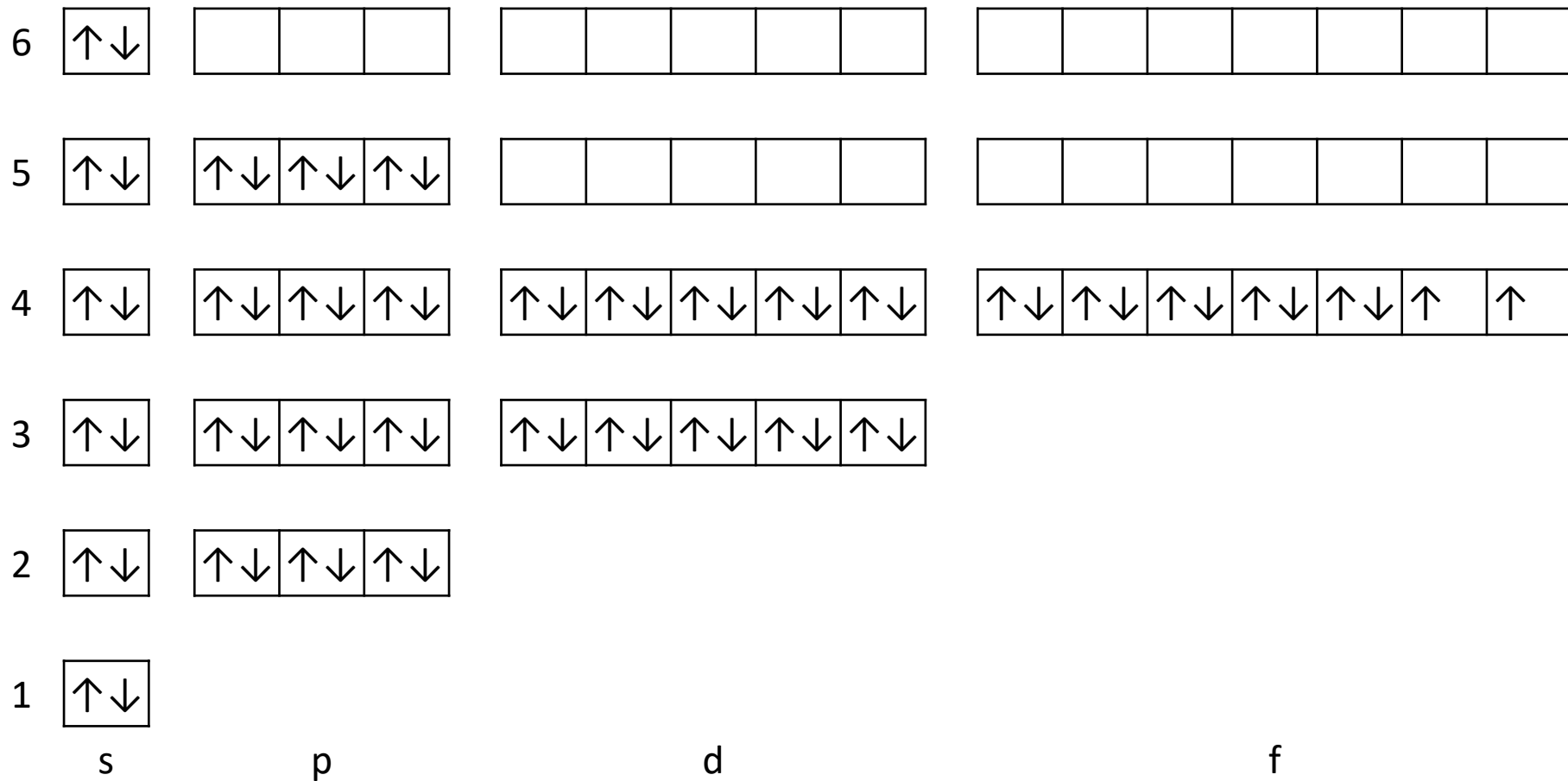
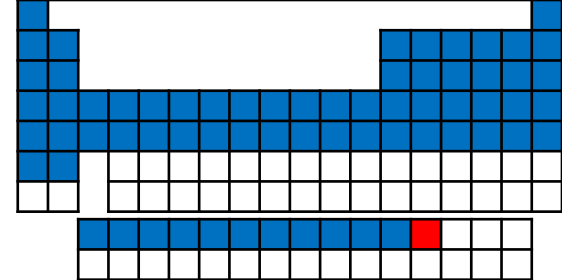


Tb



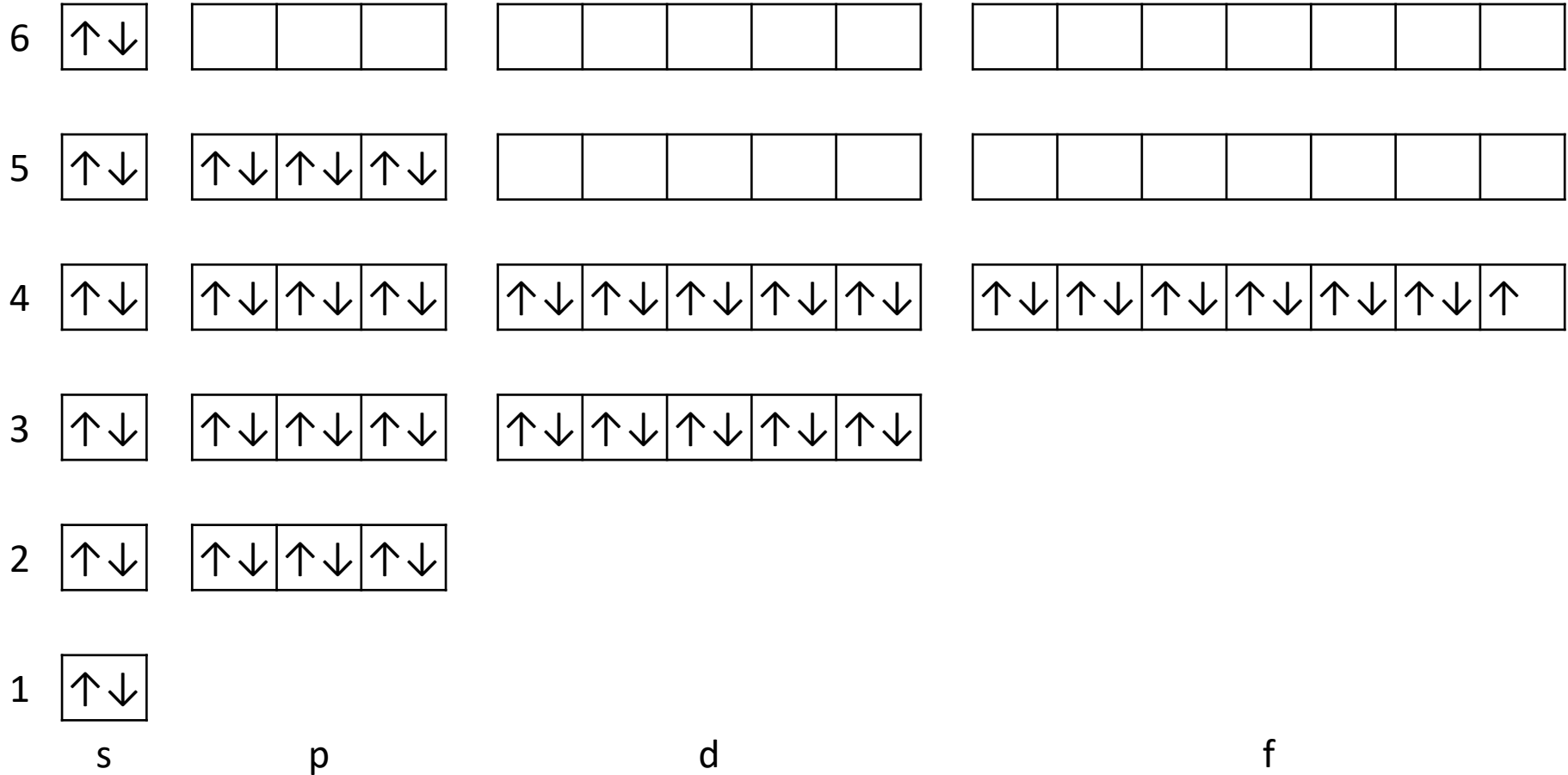
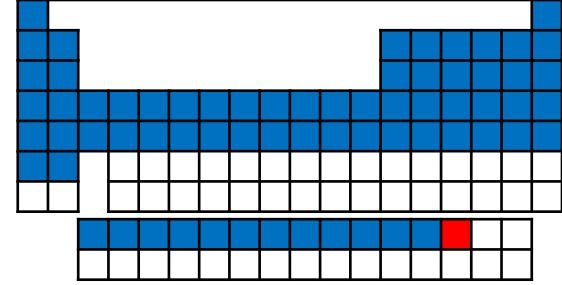
Er

[Xe]4f¹²6s²

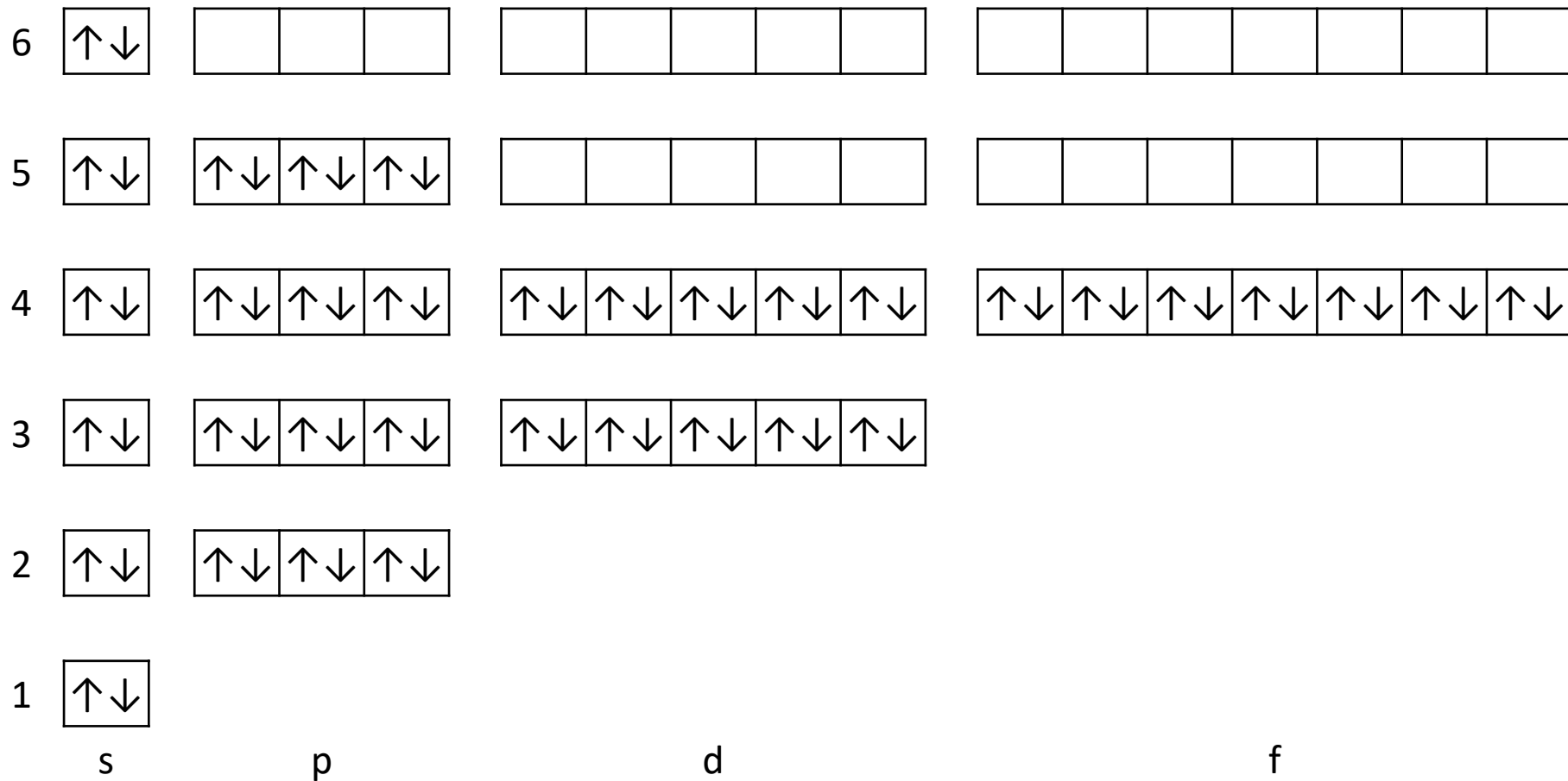
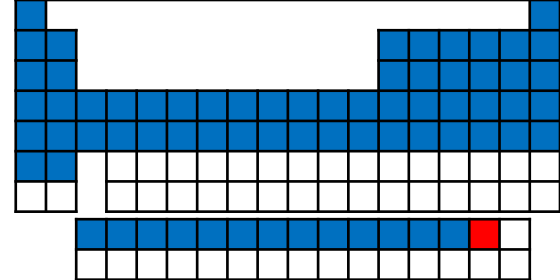
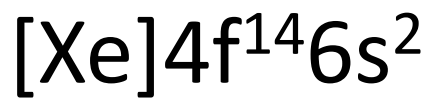


Tm

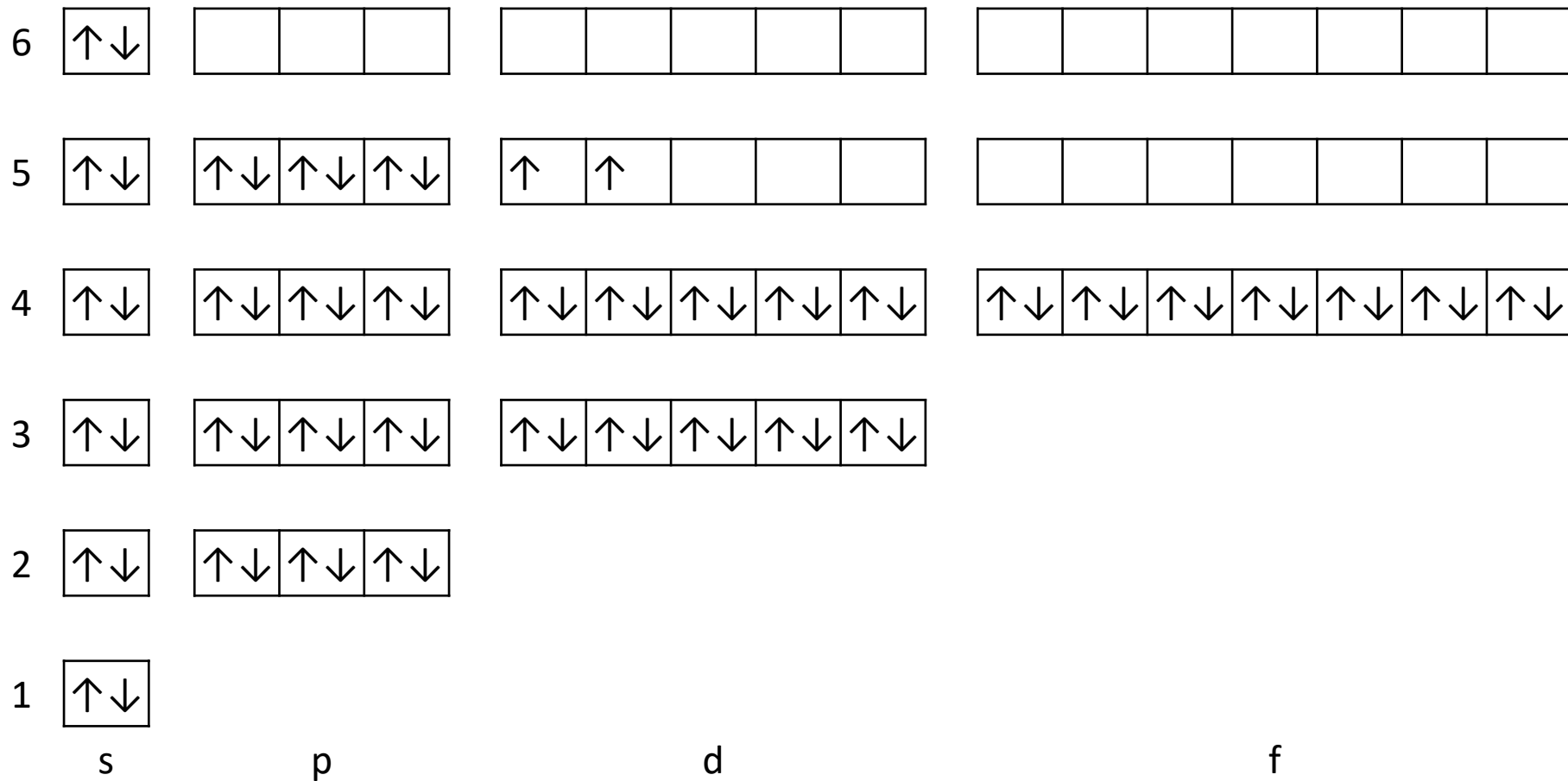
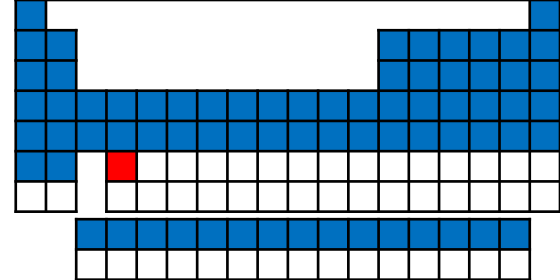
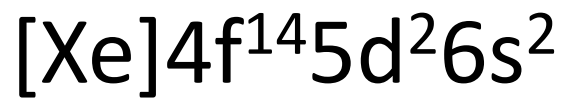
[Xe]4f¹³6s²



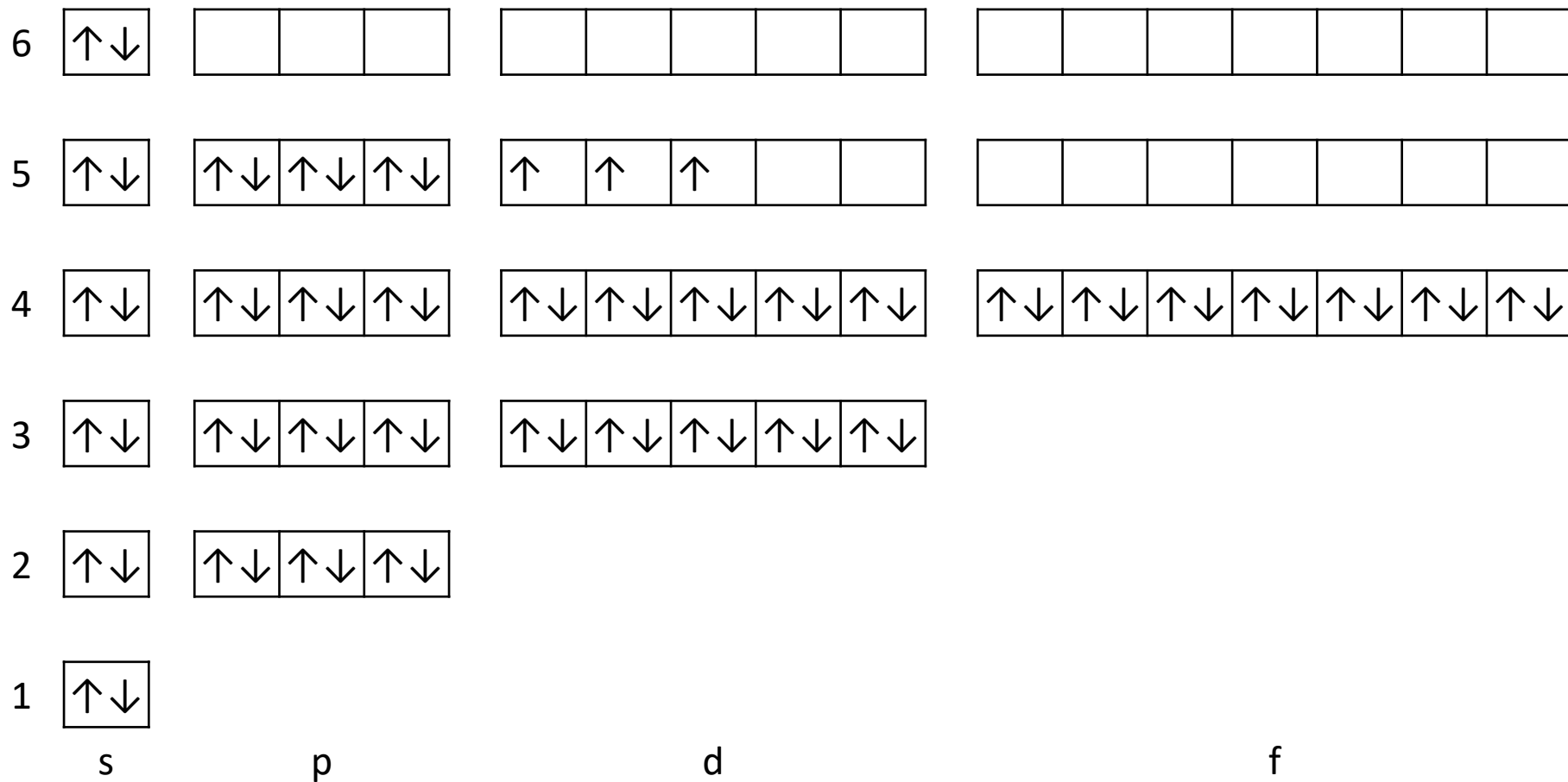
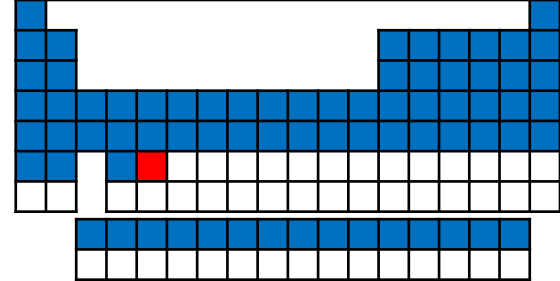
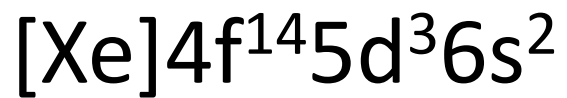
Yb



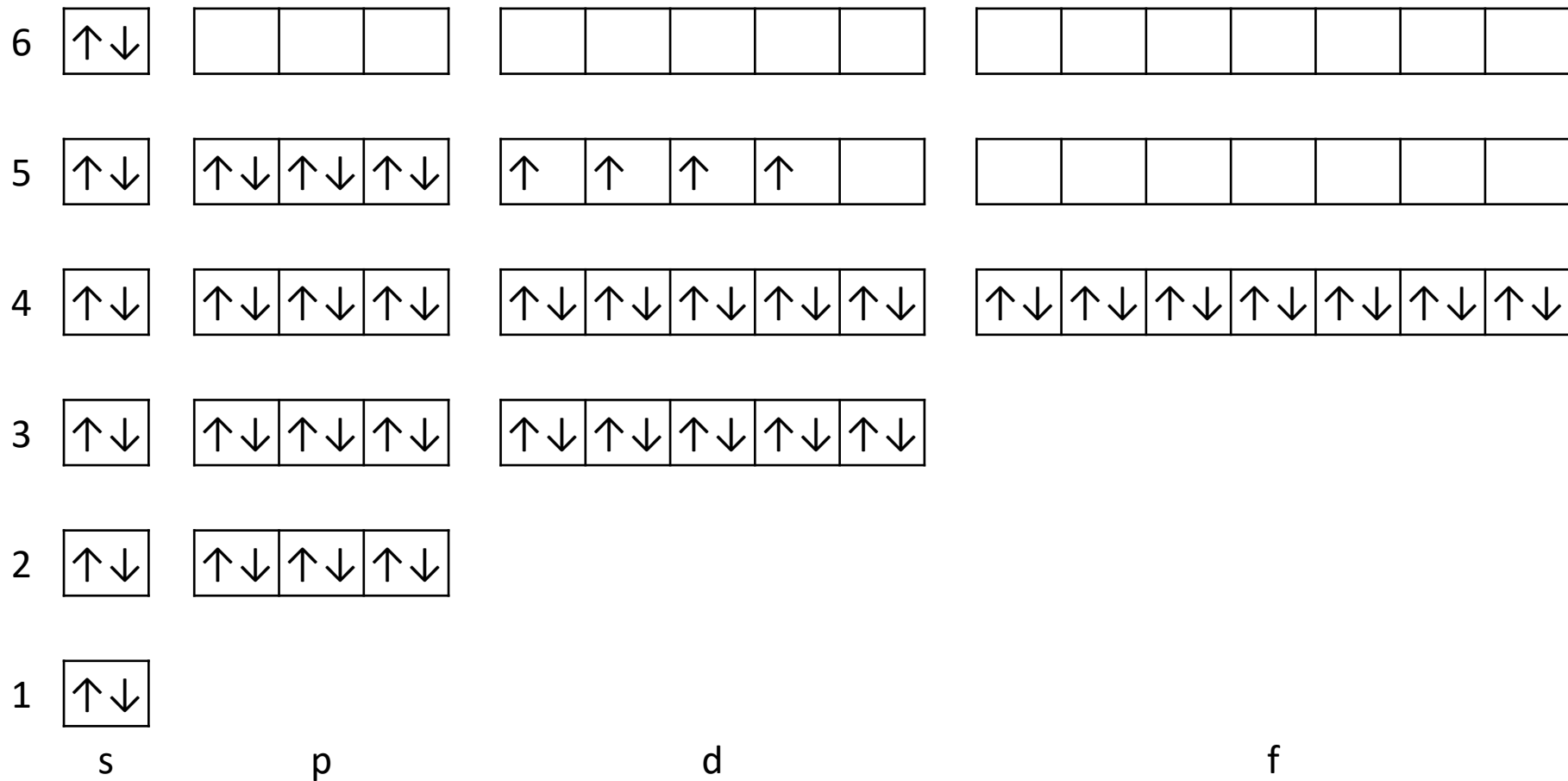
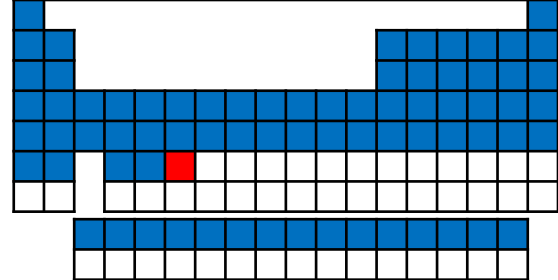
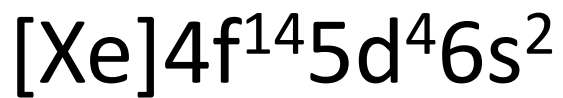
Hf



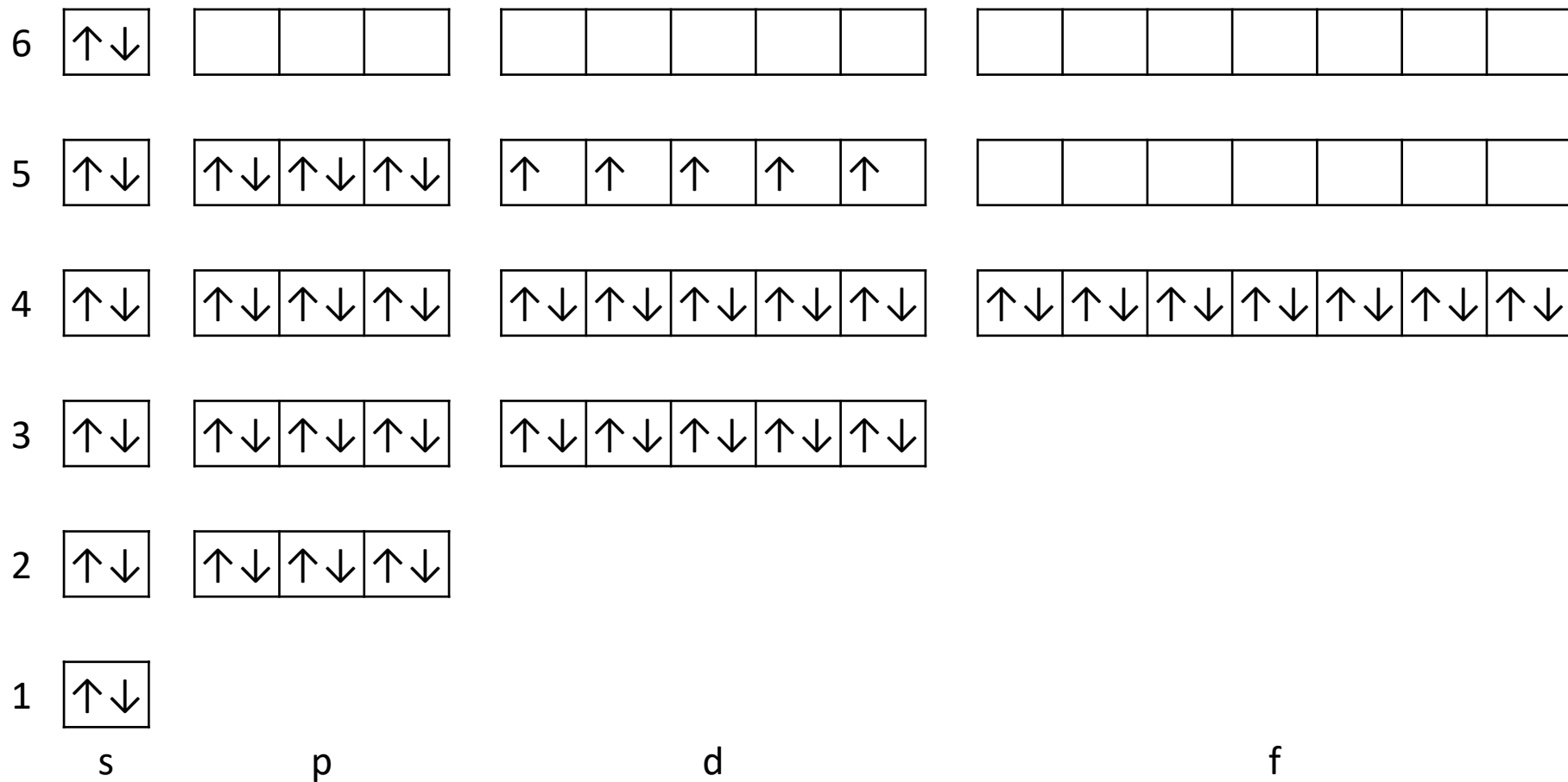
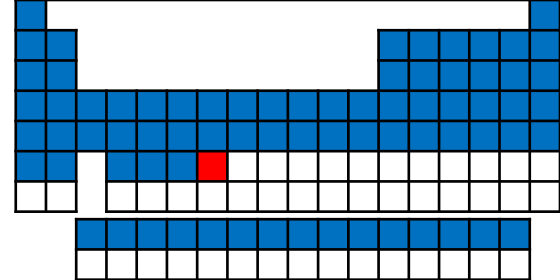
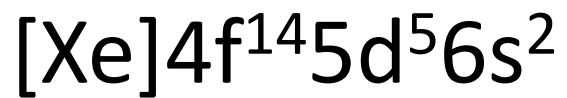
Ta



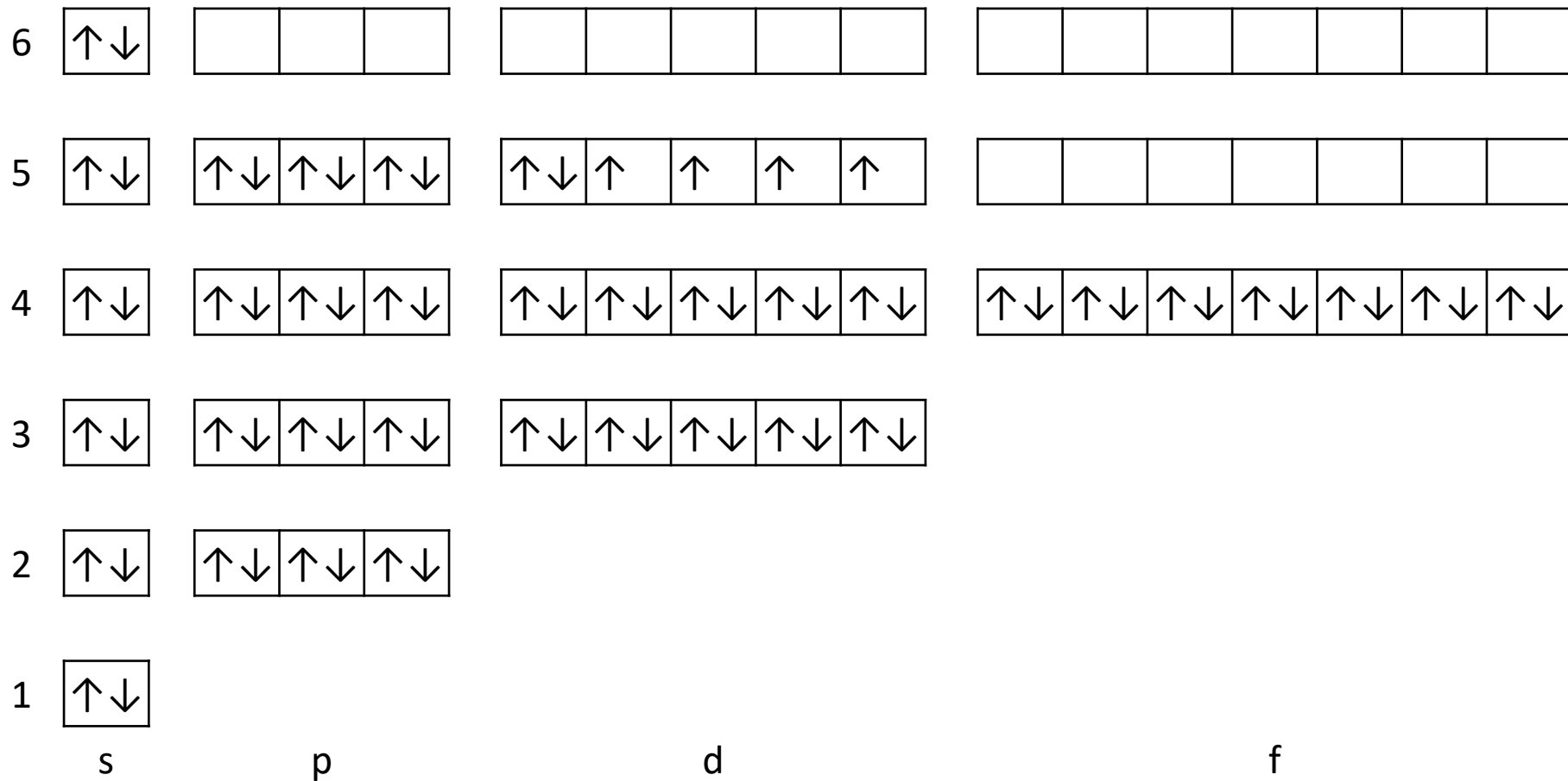
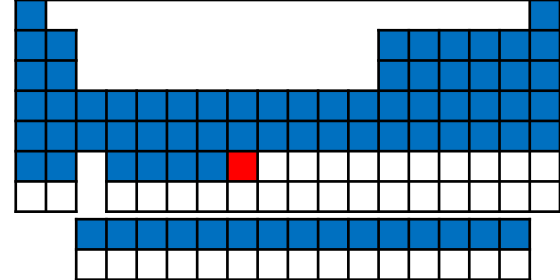
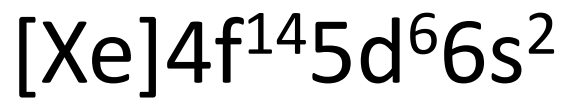
W



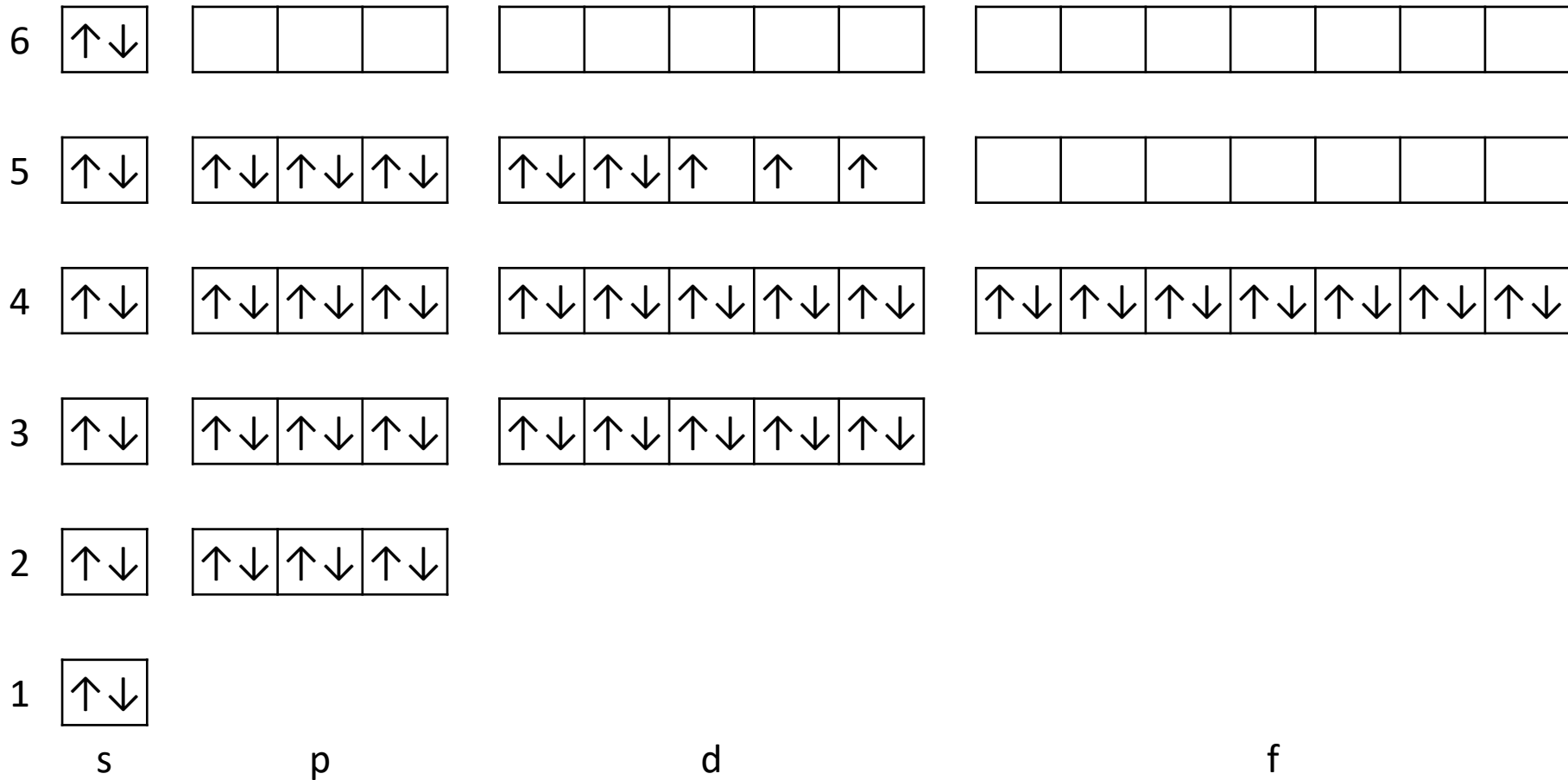
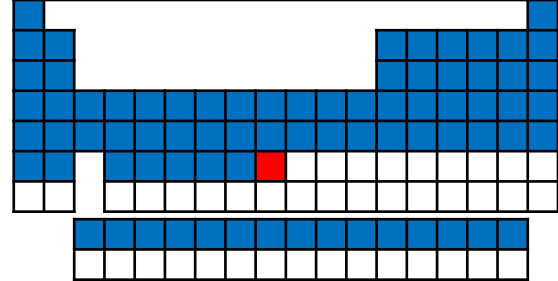
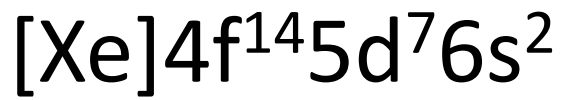
Re



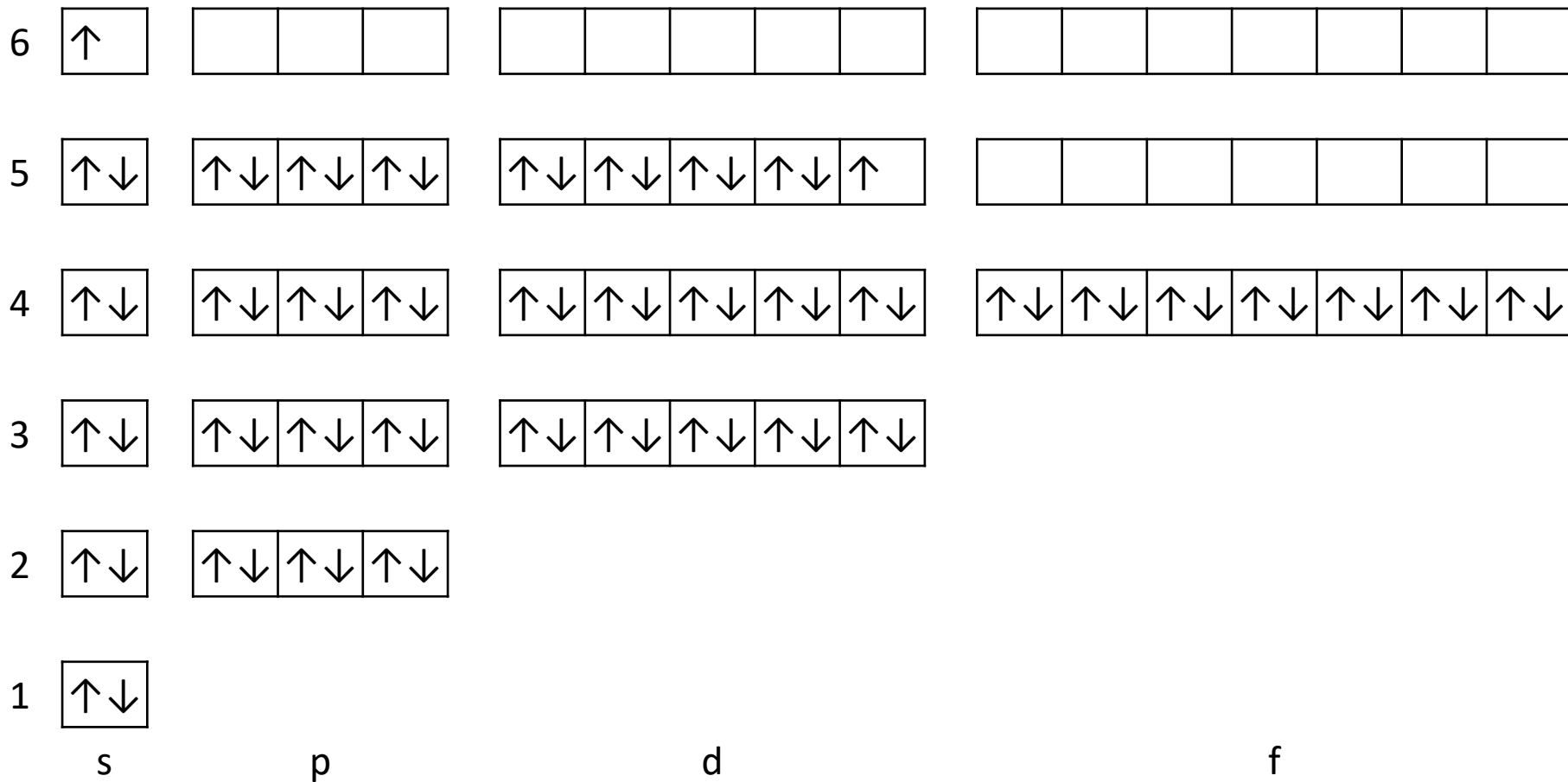
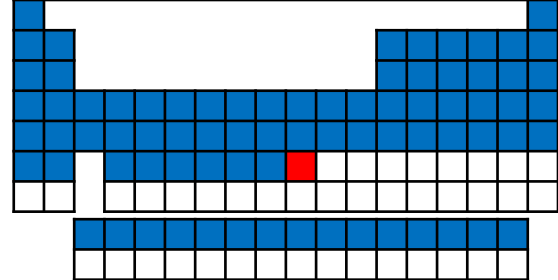
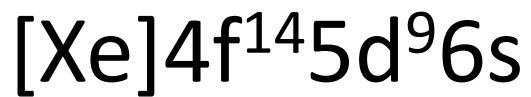
Os



Ir

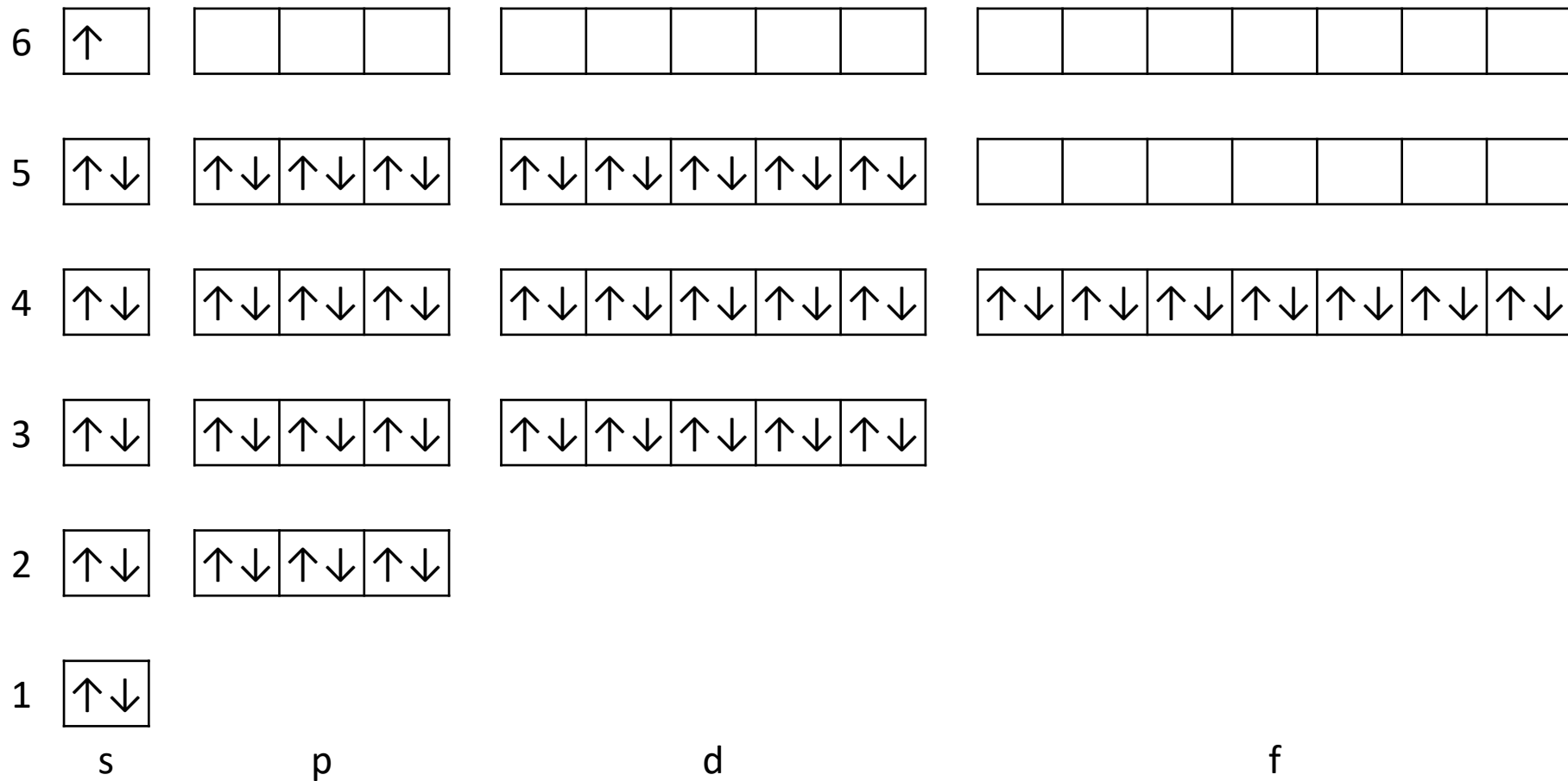
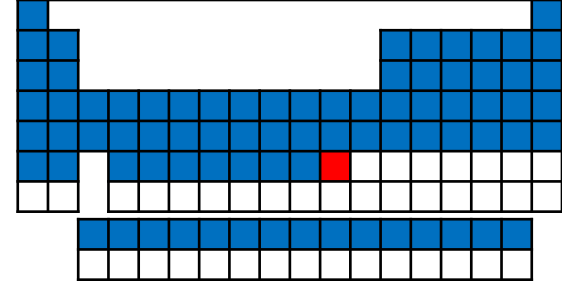


Pt



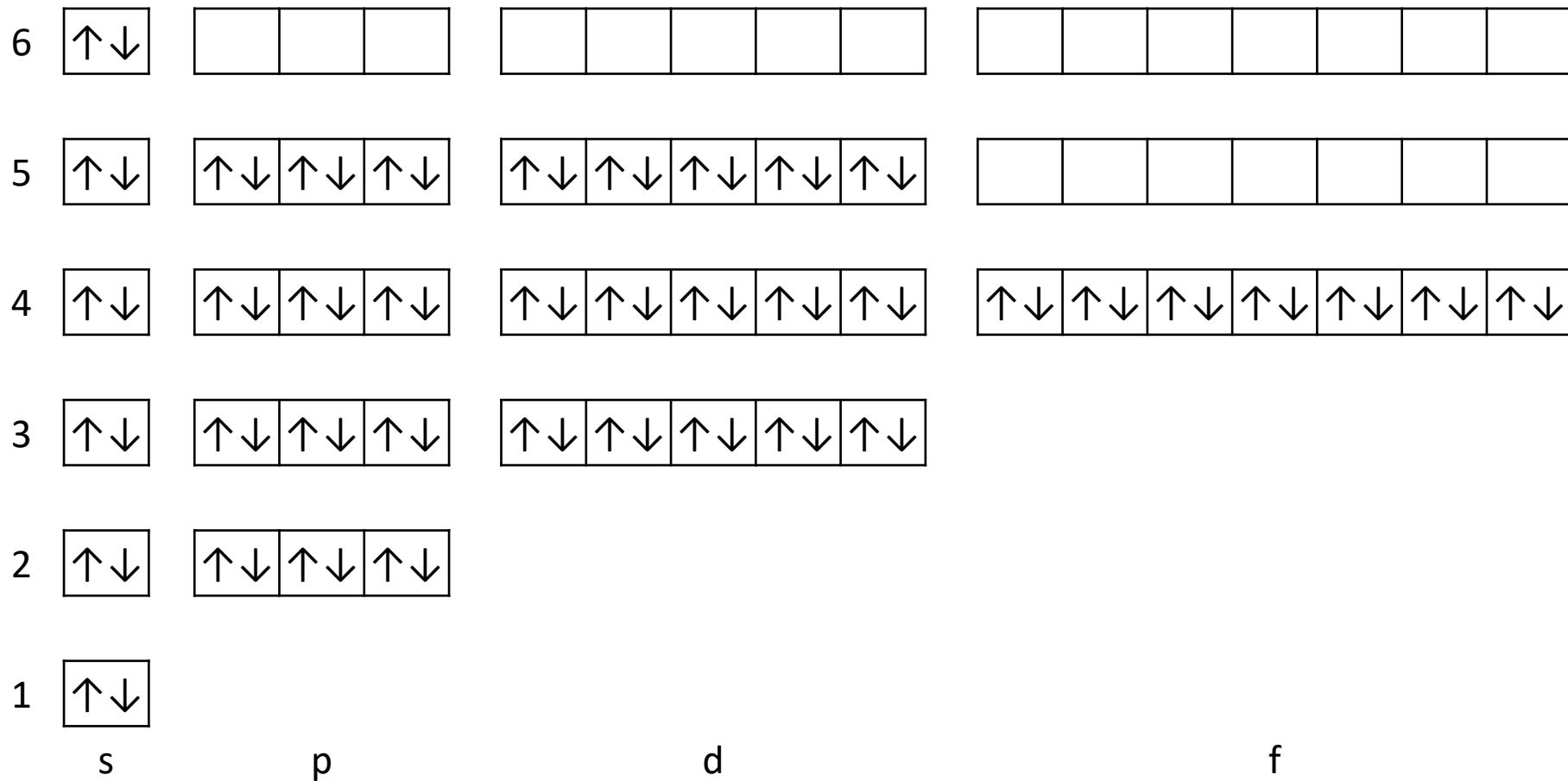
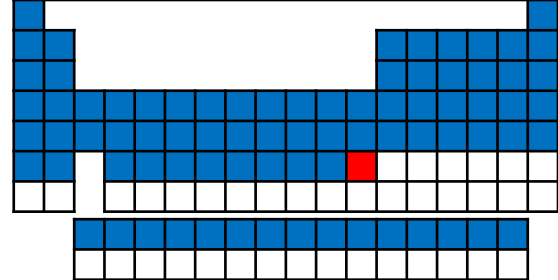
Au

[Xe]4f¹⁴5d¹⁰6s

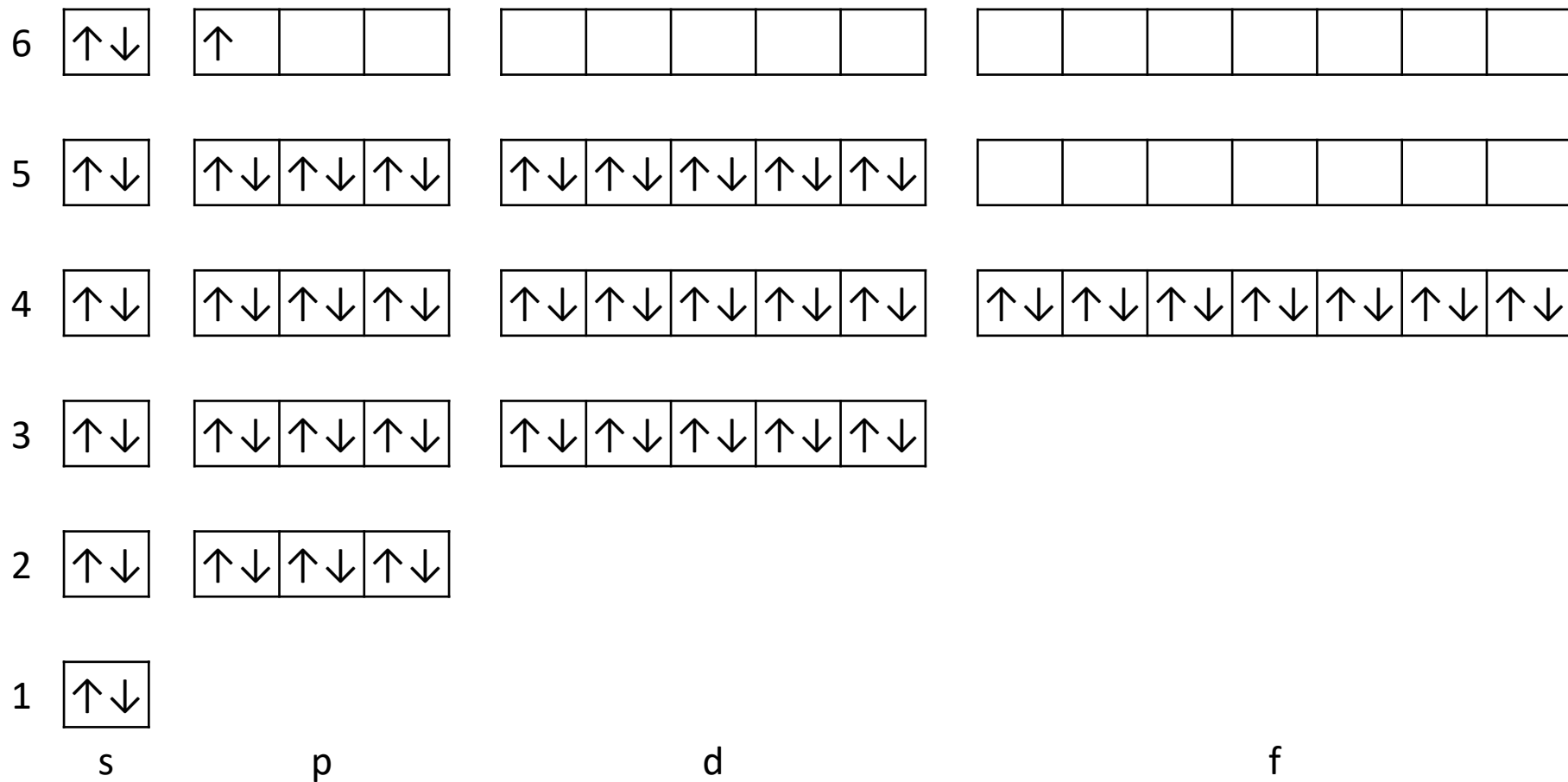
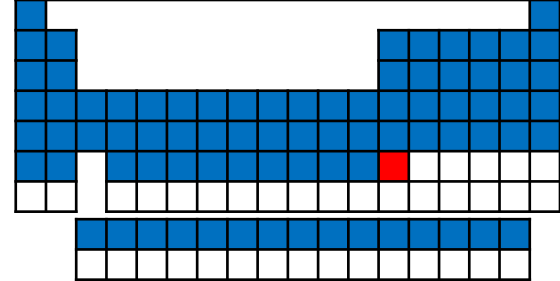
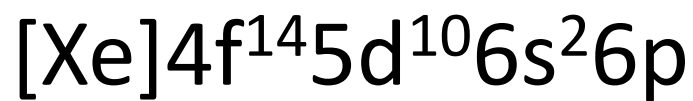


Hg

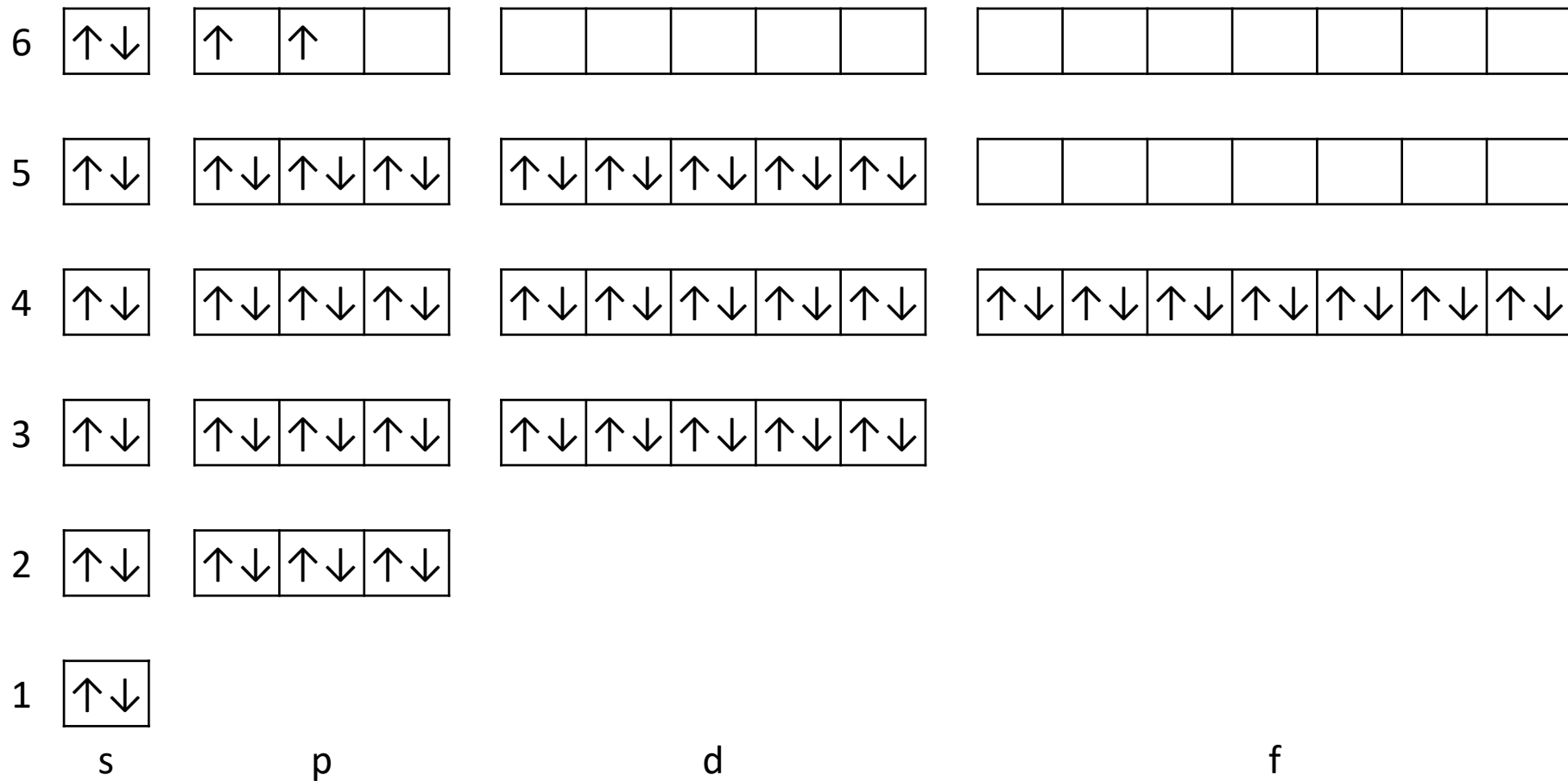
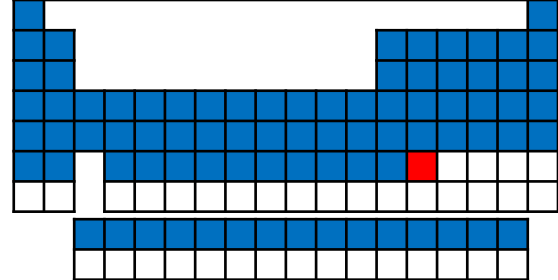
[Xe]4f¹⁴5d¹⁰6s²



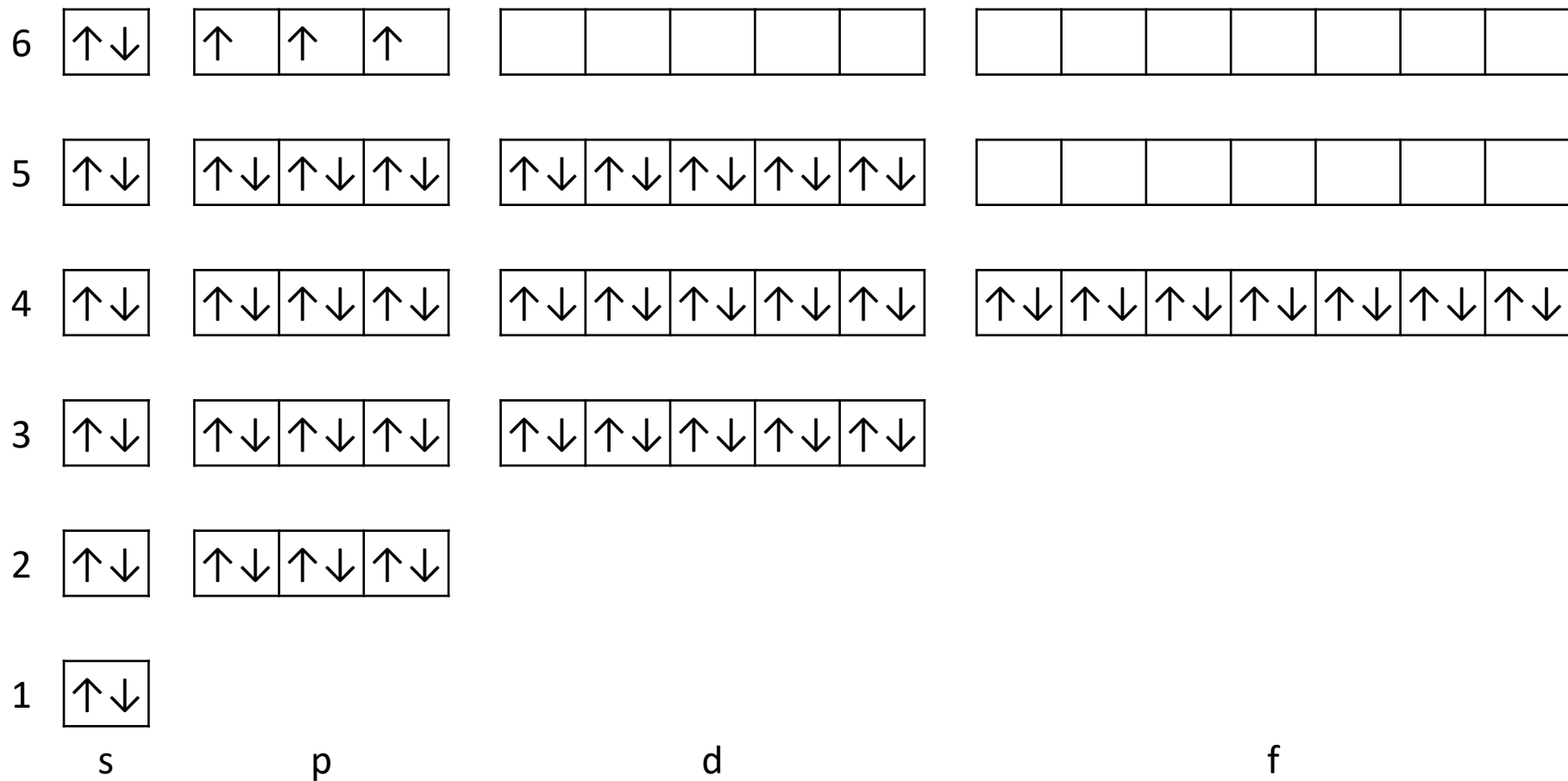
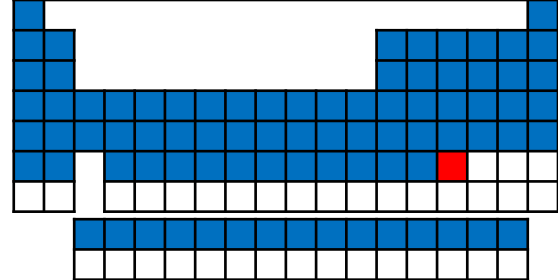
Tl



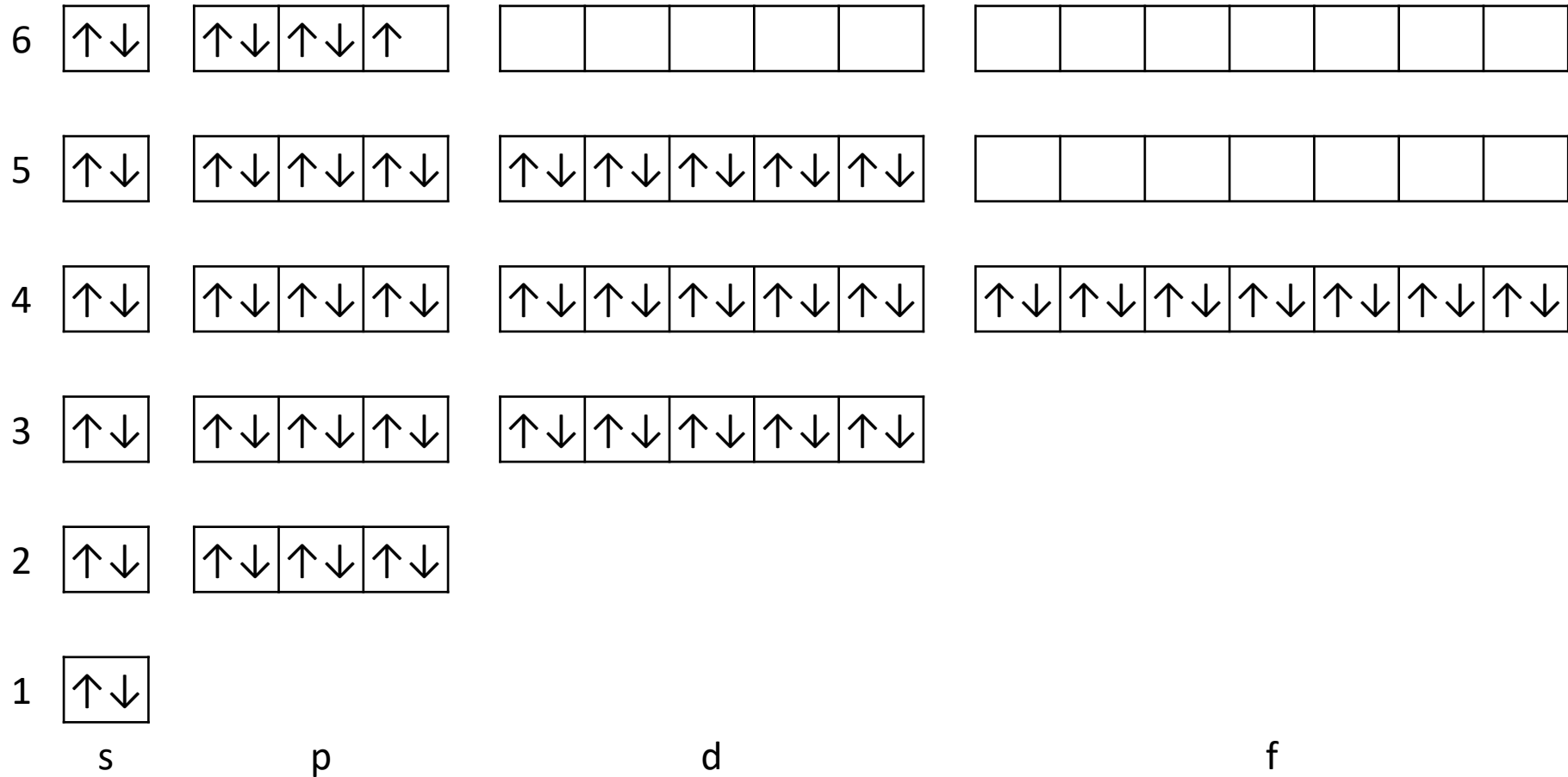
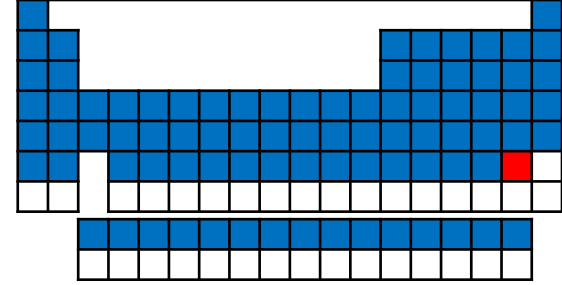
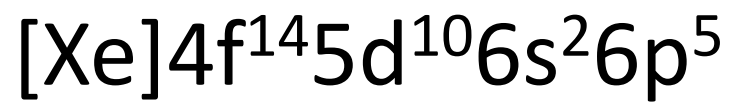
Pb



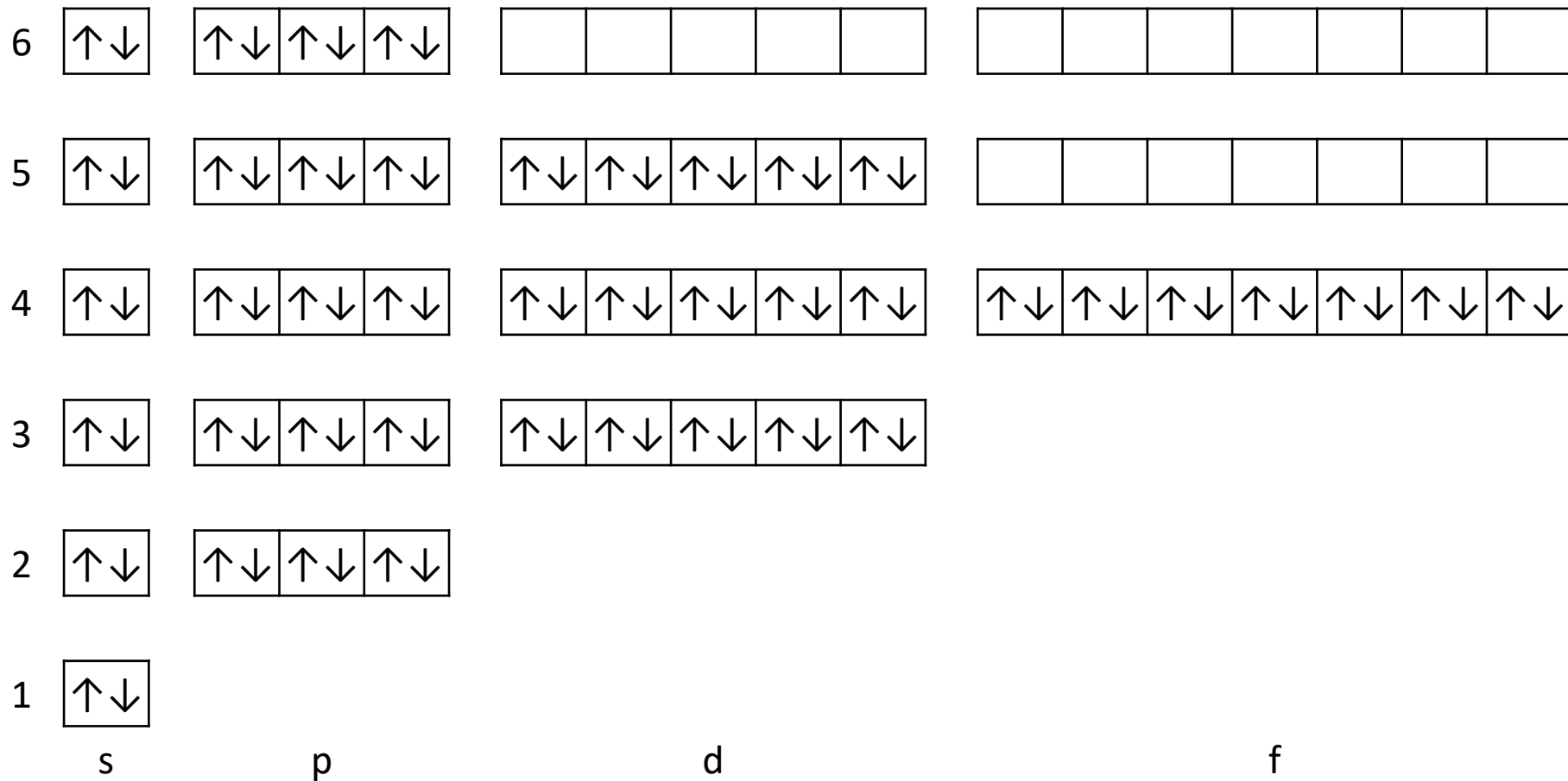
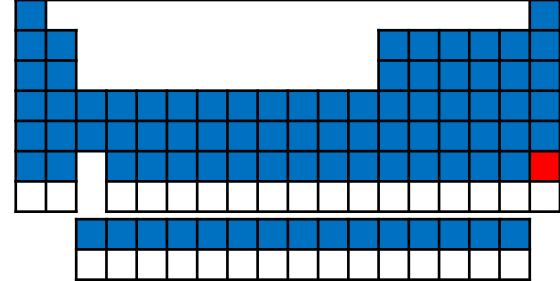
Bi



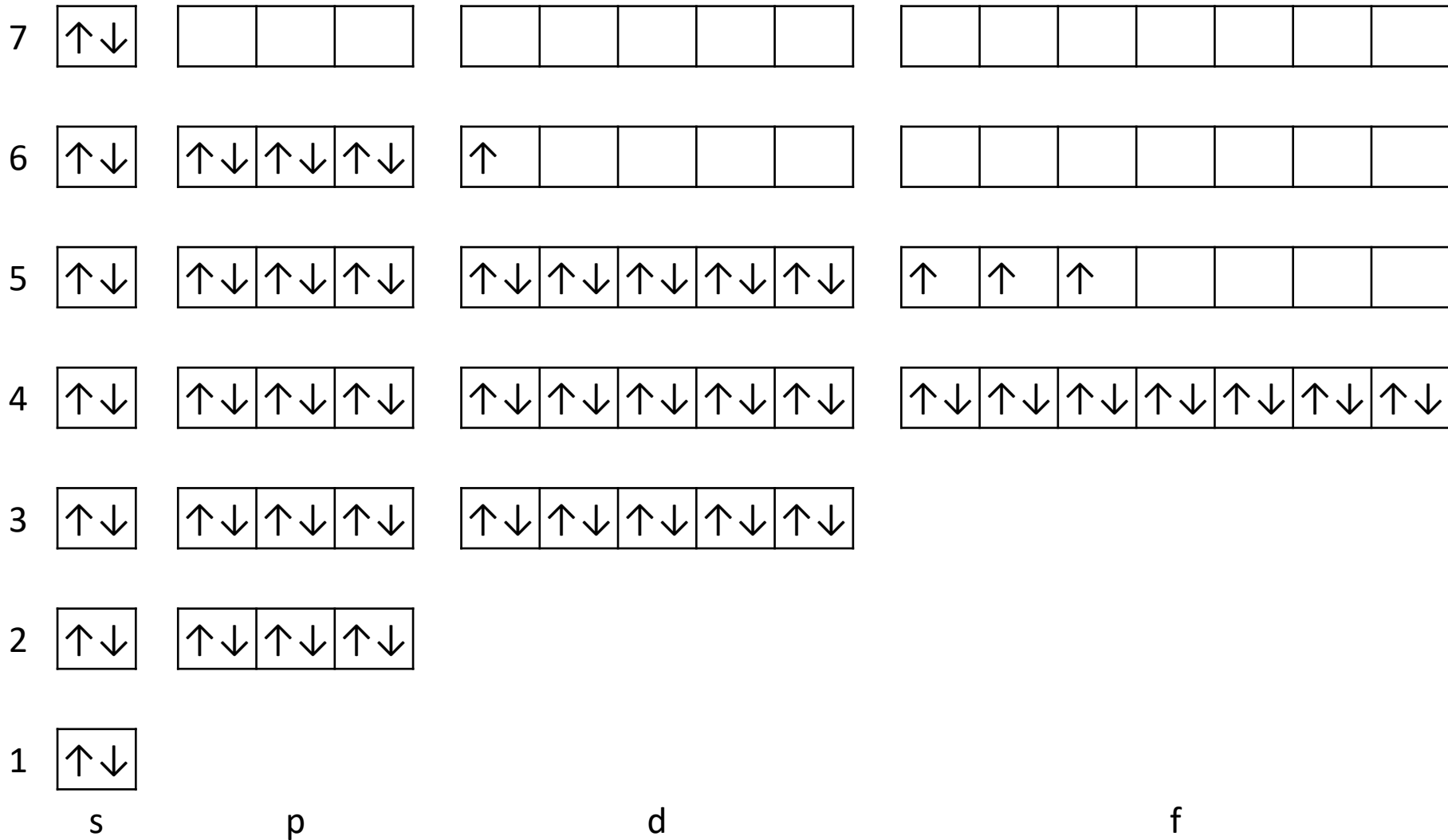
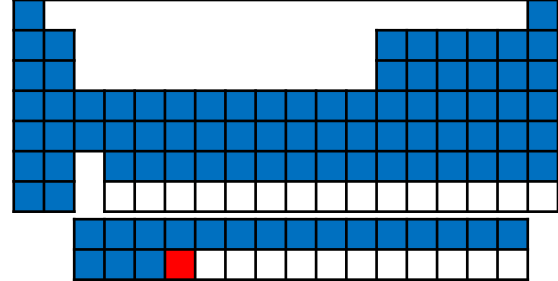
At



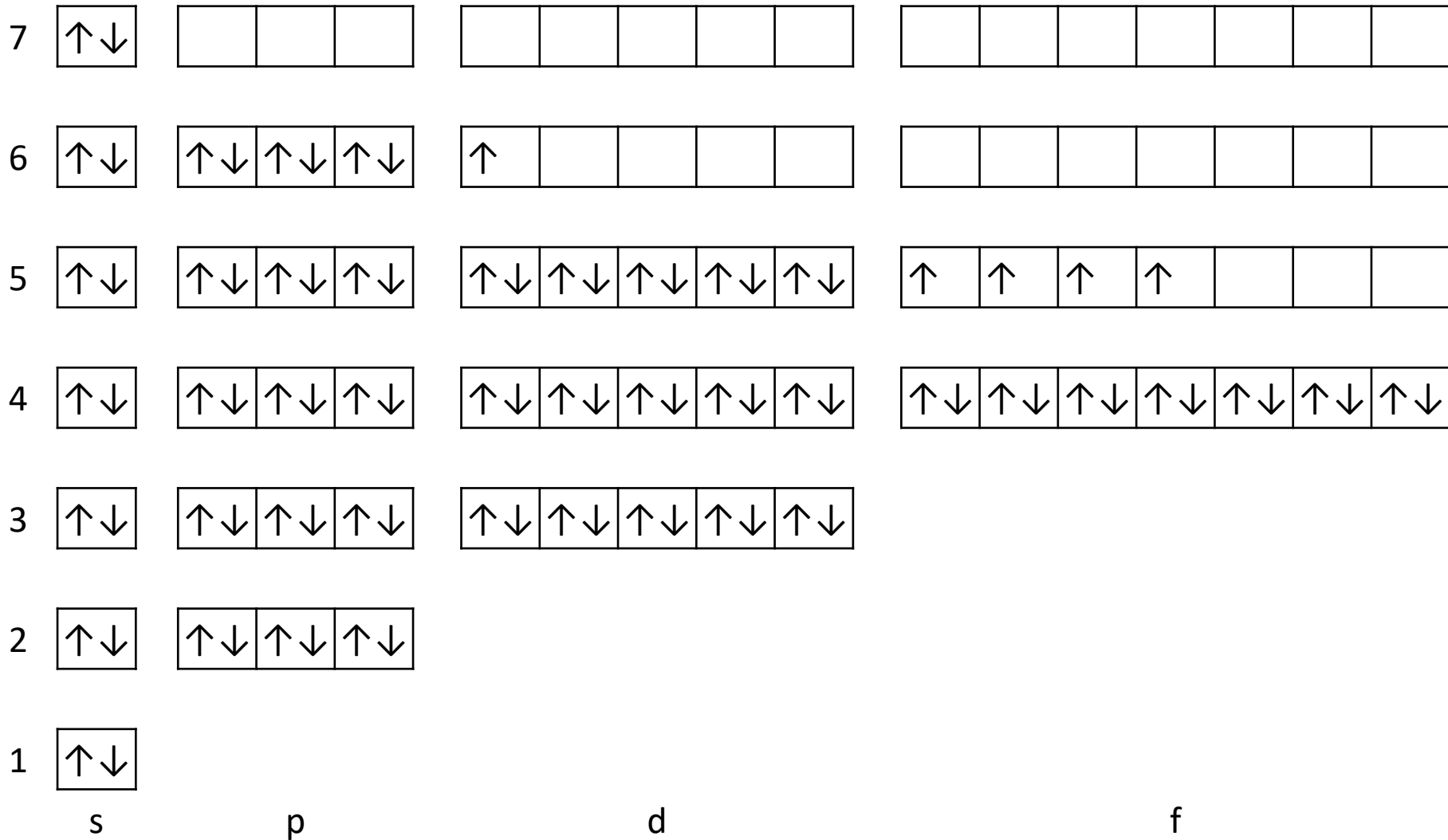
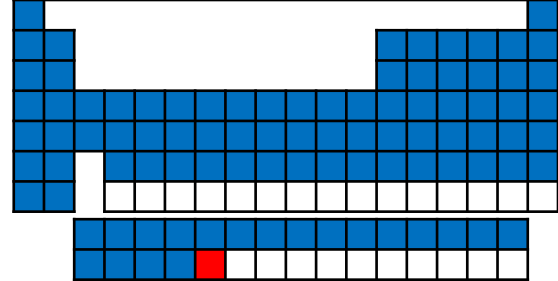
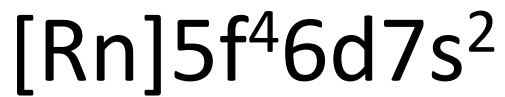
Rn



U

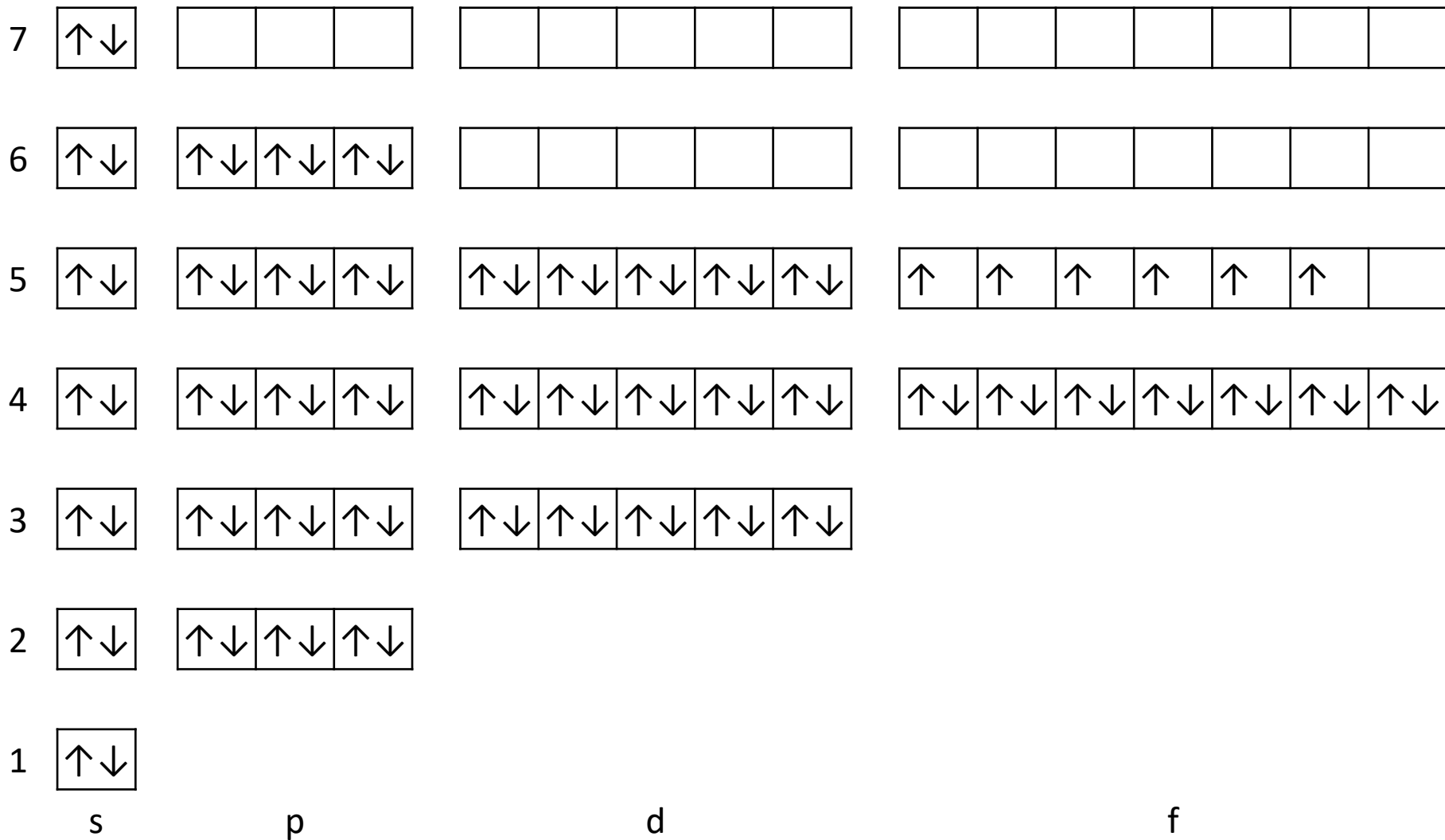
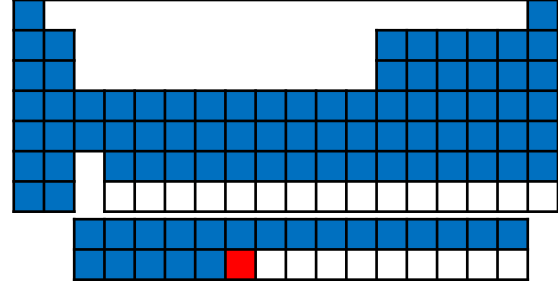


Np



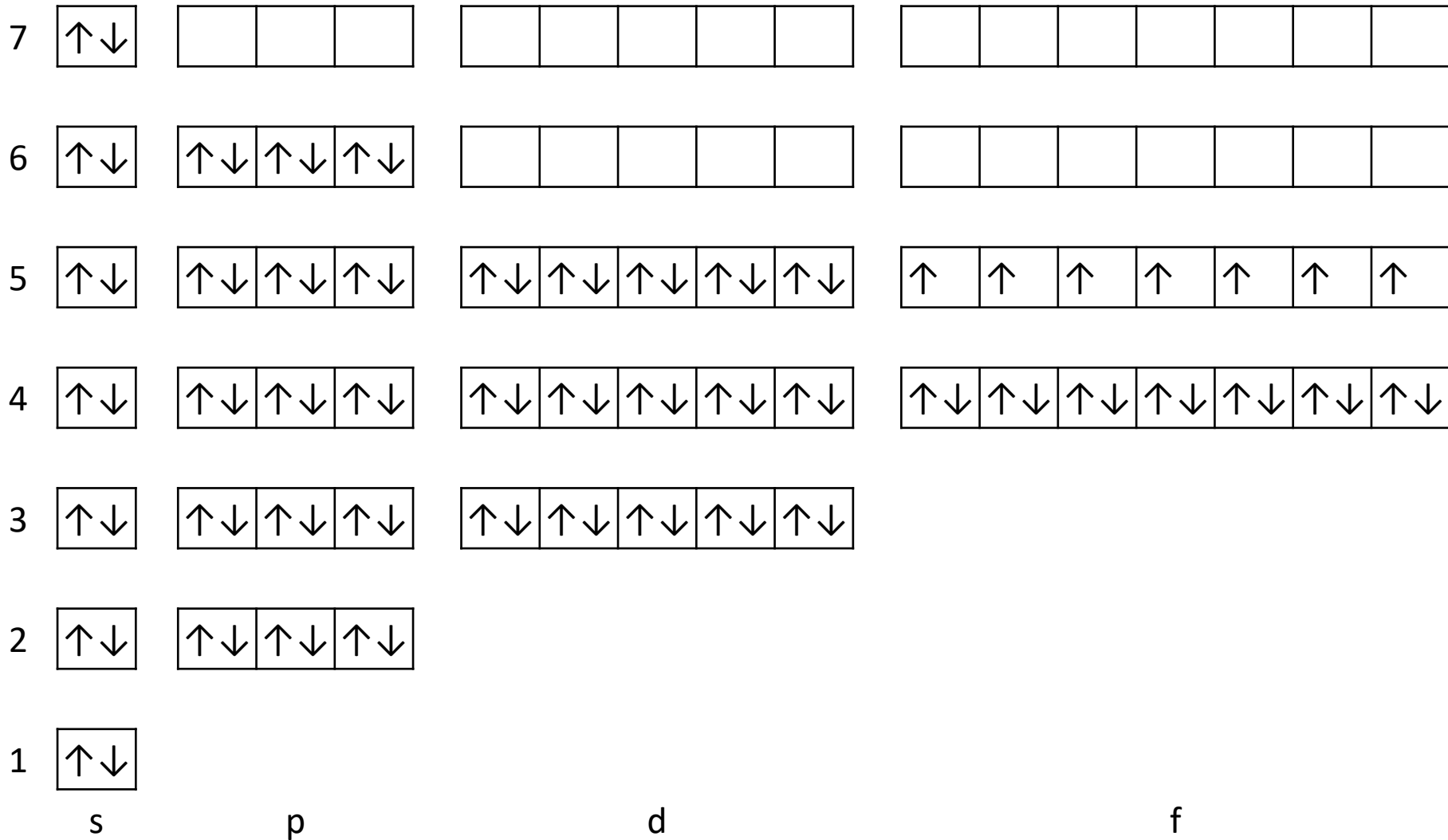
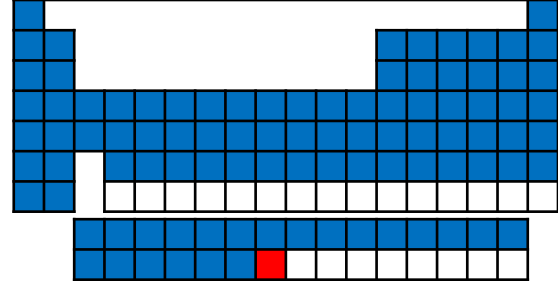
Pu

[Rn]5f⁶7s²

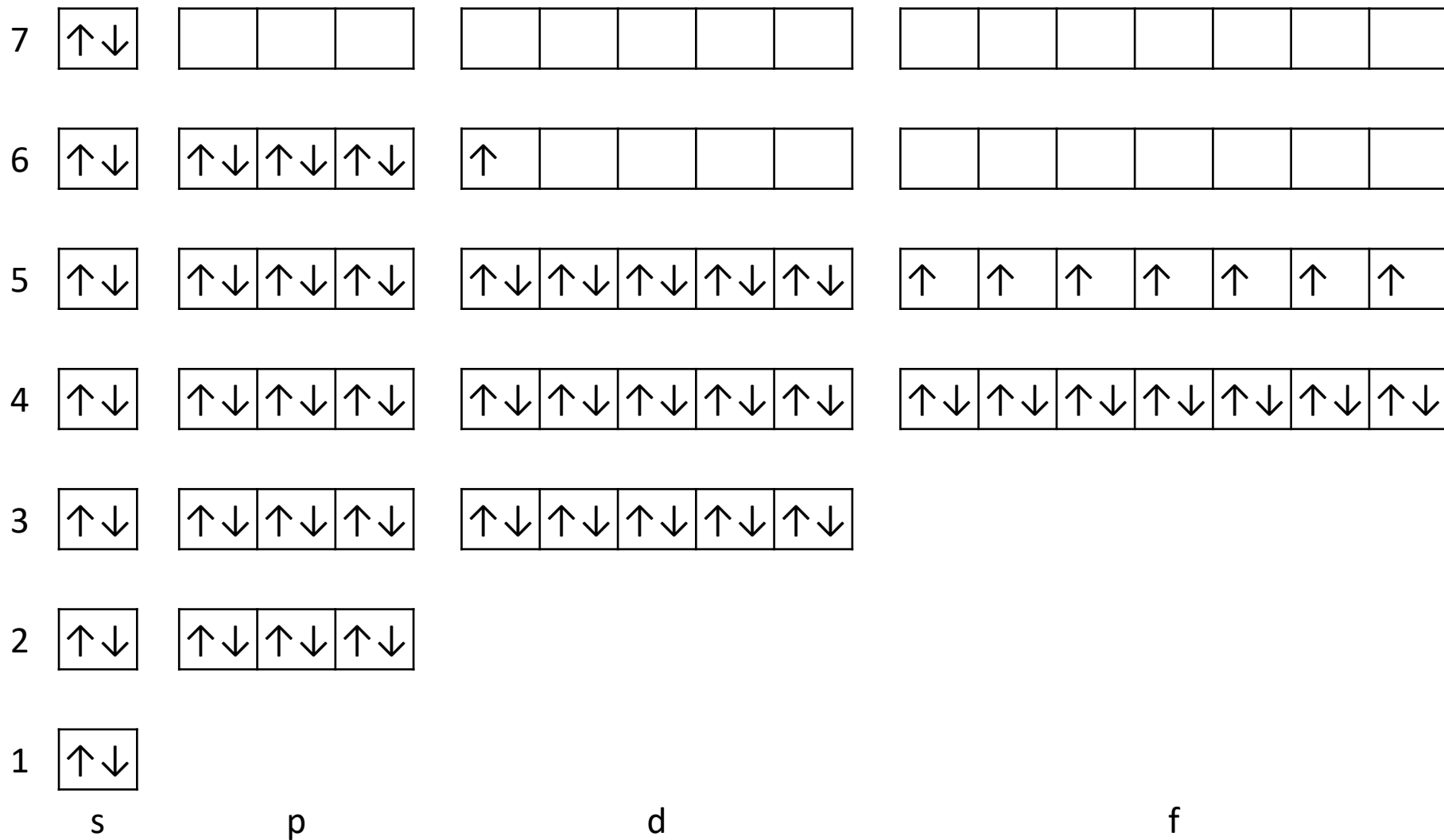
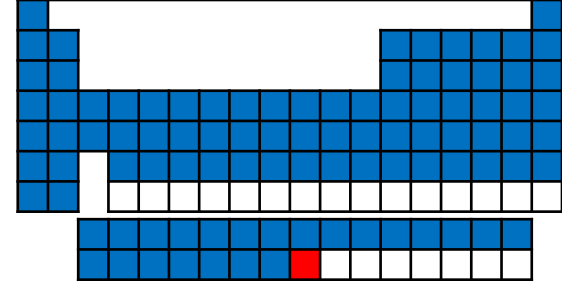
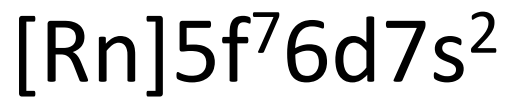


Am

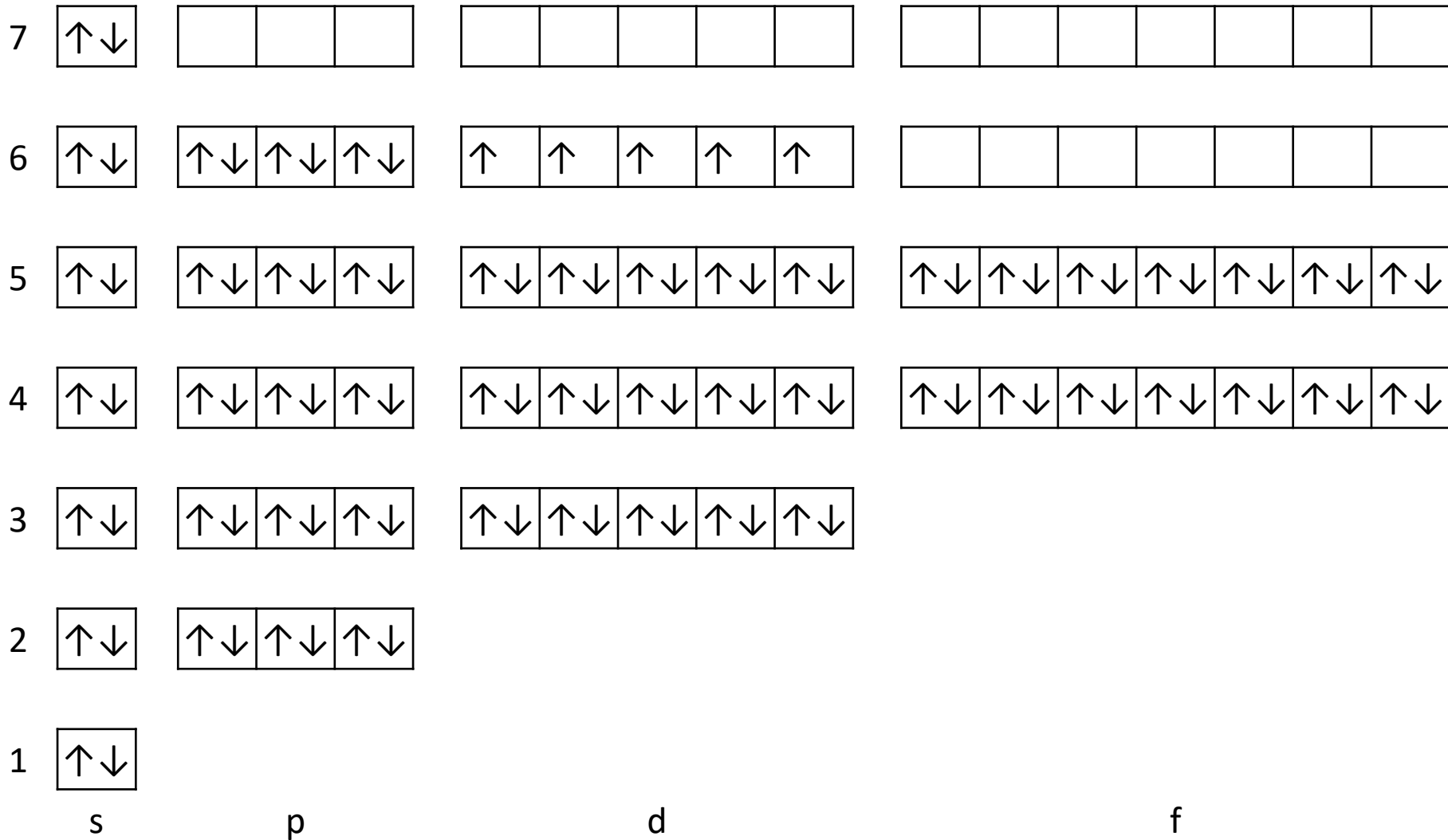
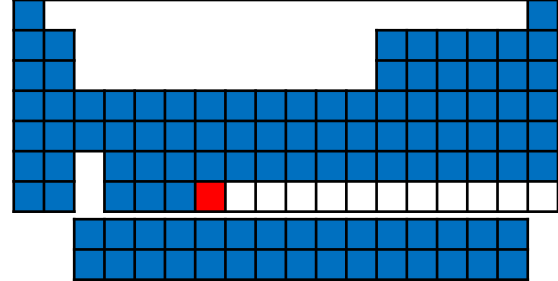
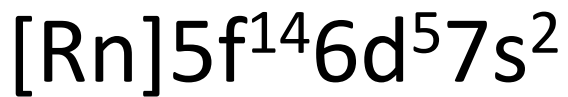
[Rn]5f⁷7s²



Cm

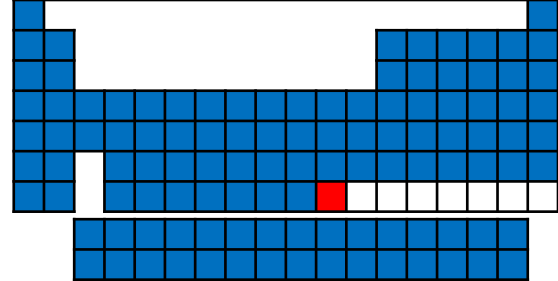


Bh



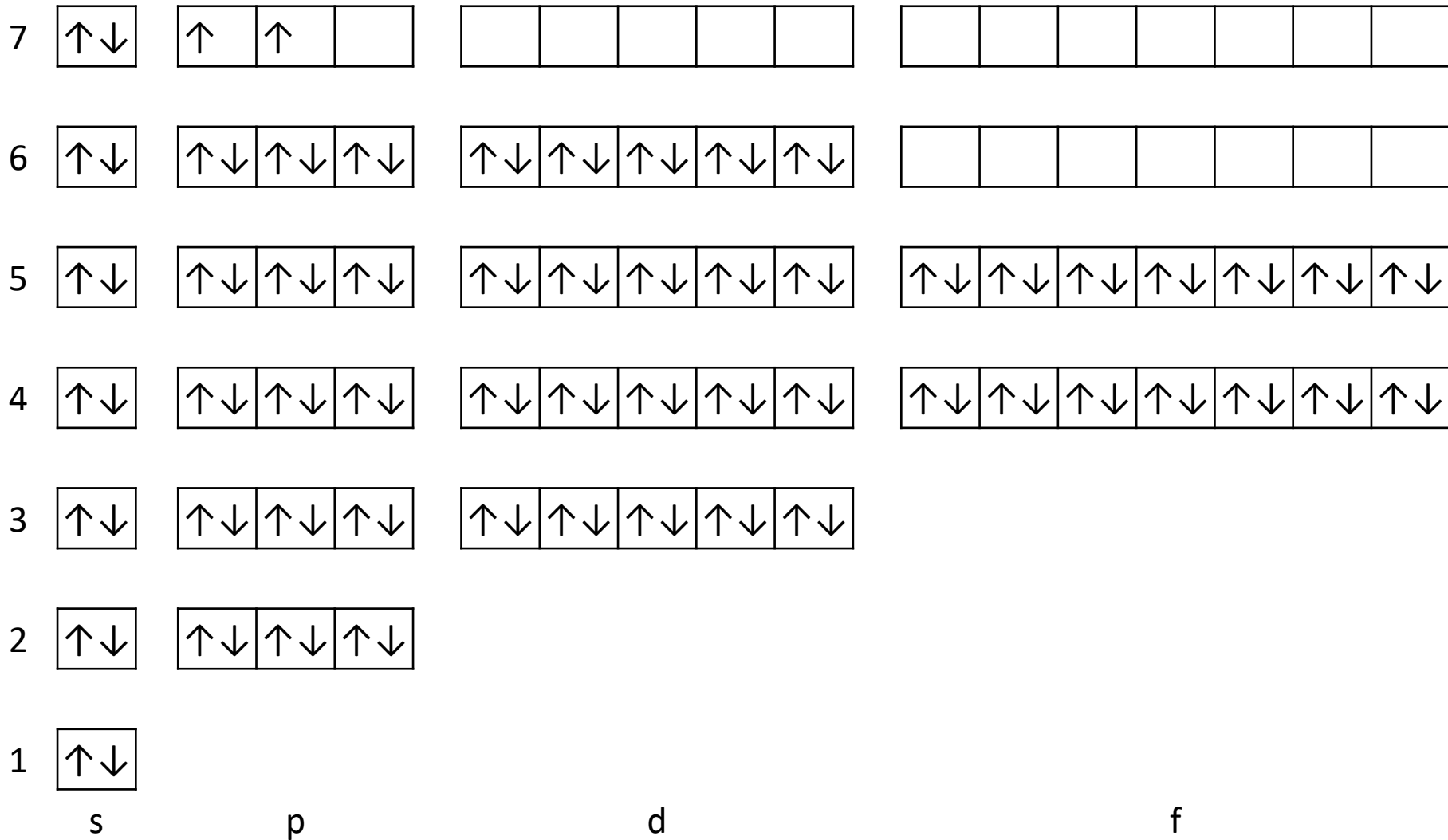
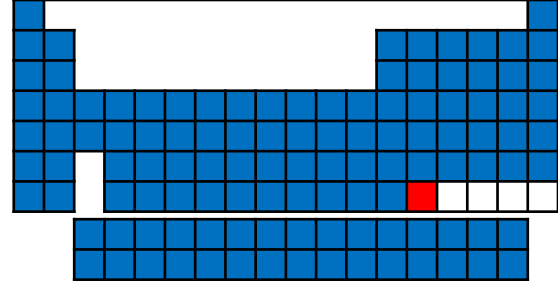
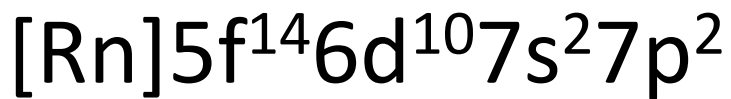
Rg

$[Rn]5f^{14}6d^{10}7s$

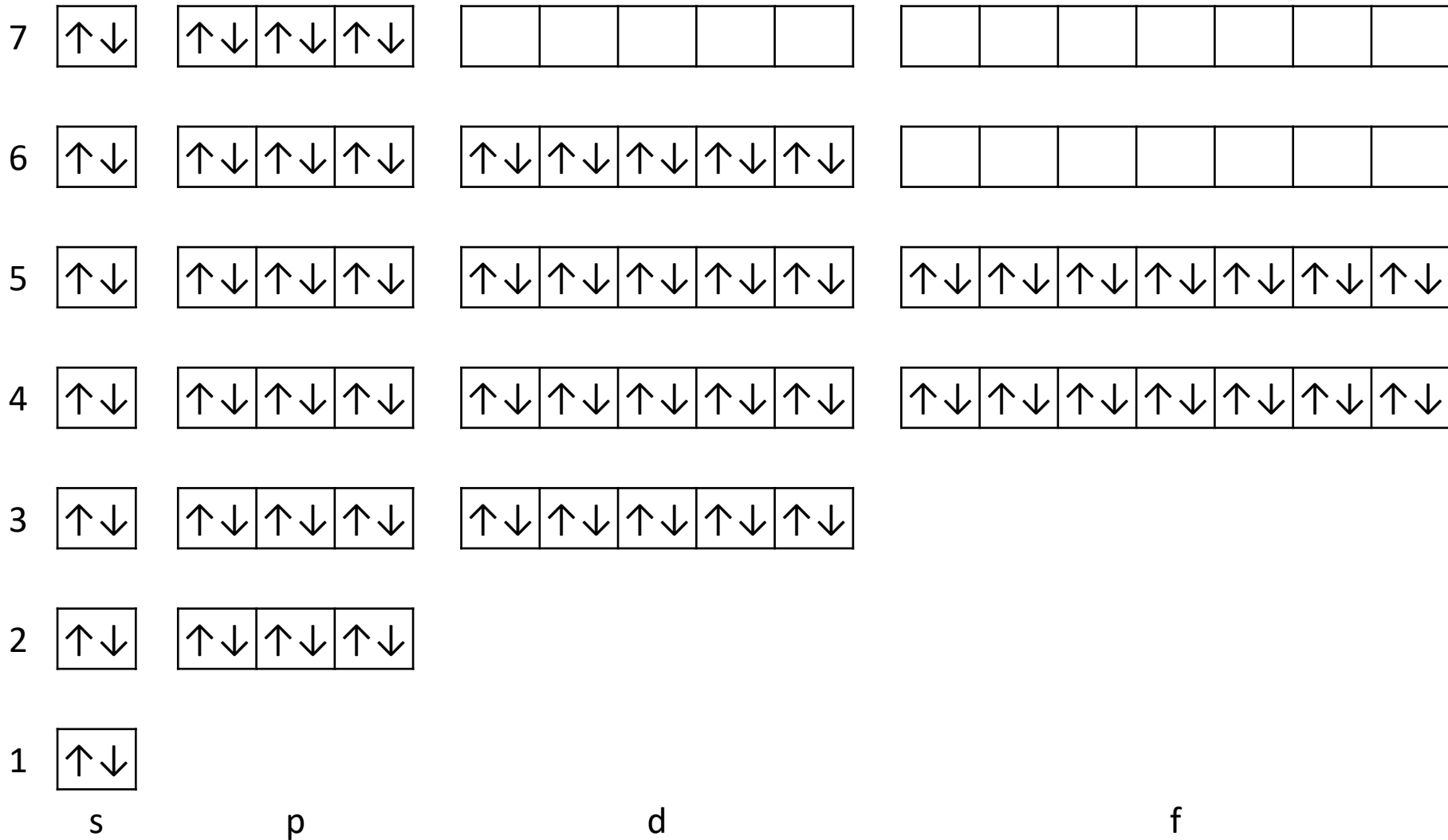
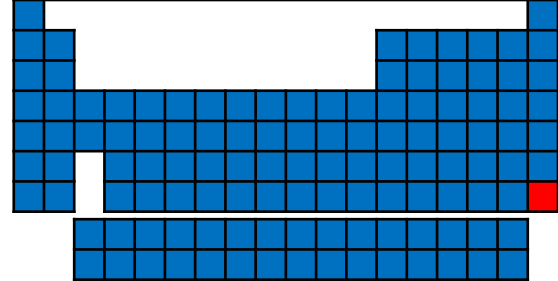
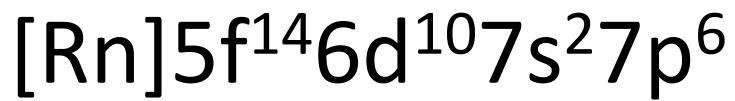


7	\uparrow																		
6	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$										
5	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$
4	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$
3	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$
2	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$	$\uparrow\downarrow$															
1	$\uparrow\downarrow$																		
	s	p			d					f									

Fl



Og



Aufbauprinzip (ohne Ausnahmen)

Regeln (nach Madelung):

- Orbitale mit kleinerem $n+l$ werden zuerst gefüllt
- bei gleichem $n+l$ werden Orbitale mit kleinerem n zuerst gefüllt

1s

2s

2p

3s

3p

4s

3d

4p

5s

4d

5p

6s

4f

5d

6p

7s

5f

6d

7p

Blöcke des Periodensystems der Elemente

<- 1s			1s ->
<- 2s ->			<- 2p ->
<- 3s ->			<- 3p ->
<- 4s ->	<- 3d ->		<- 4p ->
<- 5s ->	<- 4d ->		<- 5p ->
<- 6s ->	<- 5d ->		<- 6p ->
<- 7s ->	<- 6d ->		<- 7p ->

<- 4f ->
<- 5f ->