

# SOLUTION PAS A PAS

GRILLE 655_10			ETAPE : 1			solution proposée par Philippe www.sudokupasapas.fr		
C1	C2	C3	C4	C5	C6	C7	C8	C9
1 2 5 6	<b>8</b>	1 2 4 5 6	1 3 5	1 3 4 5	1 4 5	2 4 5	<b>9</b>	<b>7</b>
2 3 5	<b>7</b>	2 3 4 5	<b>6</b>	<b>9</b>	<b>8</b>	2 3 4 5	<b>1</b>	2 3 4 5
<b>9</b>	1 3 4	1 3 4 5	<b>7</b>	<b>2</b>	1 4 5	2 3 4 5	<b>6</b>	<b>8</b>
1 2 3 6	1 2 3 6	1 2 3 6	<b>4</b>	1 3 5 8	1 2 5 6	<b>7</b>	2 3 8	<b>9</b>
1 2 3 4 6	<b>5</b>	<b>7</b>	<b>9</b>	1 3 8	1 2 6	1 2 3 8	2 3 4 8	1 2 3 6
1 2 3 4 6	<b>9</b>	<b>8</b>	1 3 2	1 3	<b>7</b>	1 2 3 5	2 3 4	1 2 3 5 6
1 2 5 8	1 2 4	1 2 4 5	1 2 8	<b>6</b>	<b>3</b>	<b>9</b>	<b>7</b>	1 2 4
<b>7</b>	1 2 3	<b>9</b>	<del>2</del> 5 8	1 4 5	1 2 4 5	<b>6</b>	2 3 8	1 2 3
1 2 3 6 8	1 2 3 4 6	1 2 3 4 6	1 2 8	<b>7</b>	<b>9</b>	1 2 3 4	2 3 5	1 2 3 4

15 placements

RG



B9

RVB

8	L4C5		
5	L4C6		
6	L5C6		
2	L6C4	<del>2</del>	L8C4
2	L8C6		
4	L8C5		
5	L8C4	<del>5</del>	L8C4

# SOLUTION PAS A PAS

<b>GRILLE 655_10</b>			<b>ETAPE : 2</b>			solution proposée par Philippe www.sudokupasapas.fr																																																																																			
C1	C2	C3	C4	C5	C6	C7	C8	C9																																																																																	
L1 <table style="width: 100%; border-collapse: collapse; font-size: x-small;"><tr><td style="border: 1px solid black; padding: 2px;">1 <del>5</del> 6</td><td style="border: 1px solid black; padding: 2px;"><b>8</b></td><td style="border: 1px solid black; padding: 2px;">1 2 4 <del>6</del></td><td style="border: 1px solid black; padding: 2px;"><del>3</del> <b>5</b> 3</td><td style="border: 1px solid black; padding: 2px;"><del>3</del> <del>5</del> 3</td><td style="border: 1px solid black; padding: 2px;">1 4 <del>6</del></td><td style="border: 1px solid black; padding: 2px;">4 <del>5</del></td><td style="border: 1px solid black; padding: 2px;"><b>9</b></td><td style="border: 1px solid black; padding: 2px;"><b>7</b></td></tr></table>	1 <del>5</del> 6	<b>8</b>	1 2 4 <del>6</del>	<del>3</del> <b>5</b> 3	<del>3</del> <del>5</del> 3	1 4 <del>6</del>	4 <del>5</del>	<b>9</b>	<b>7</b>	L2 <table style="width: 100%; border-collapse: collapse; font-size: x-small;"><tr><td style="border: 1px solid black; padding: 2px;">2 3 5</td><td style="border: 1px solid black; padding: 2px;"><b>7</b></td><td style="border: 1px solid black; padding: 2px;">2 3 4 5</td><td style="border: 1px solid black; padding: 2px;"><b>6</b></td><td style="border: 1px solid black; padding: 2px;"><b>9</b></td><td style="border: 1px solid black; padding: 2px;"><b>8</b></td><td style="border: 1px solid black; padding: 2px;">2 3 4 5</td><td style="border: 1px solid black; padding: 2px;"><b>1</b></td><td style="border: 1px solid black; padding: 2px;">2 3 4 5</td></tr></table>	2 3 5	<b>7</b>	2 3 4 5	<b>6</b>	<b>9</b>	<b>8</b>	2 3 4 5	<b>1</b>	2 3 4 5	L3 <table style="width: 100%; border-collapse: collapse; font-size: x-small;"><tr><td style="border: 1px solid black; padding: 2px;"><b>9</b></td><td style="border: 1px solid black; padding: 2px;">1 3 4</td><td style="border: 1px solid black; padding: 2px;">1 3 4 5</td><td style="border: 1px solid black; padding: 2px;"><b>7</b></td><td style="border: 1px solid black; padding: 2px;"><b>2</b></td><td style="border: 1px solid black; padding: 2px;">1 4 <del>6</del></td><td style="border: 1px solid black; padding: 2px;">4 5 3</td><td style="border: 1px solid black; padding: 2px;"><b>6</b></td><td style="border: 1px solid black; padding: 2px;"><b>8</b></td></tr></table>	<b>9</b>	1 3 4	1 3 4 5	<b>7</b>	<b>2</b>	1 4 <del>6</del>	4 5 3	<b>6</b>	<b>8</b>	L4 <table style="width: 100%; border-collapse: collapse; font-size: x-small;"><tr><td style="border: 1px solid black; padding: 2px;">1 2 3 6</td><td style="border: 1px solid black; padding: 2px;">1 2 3 6</td><td style="border: 1px solid black; padding: 2px;">1 2 3 6</td><td style="border: 1px solid black; padding: 2px;"><b>4</b></td><td style="border: 1px solid black; padding: 2px;">1 3 5 8</td><td style="border: 1px solid black; padding: 2px;"><del>2</del> 5 6</td><td style="border: 1px solid black; padding: 2px;"><b>7</b></td><td style="border: 1px solid black; padding: 2px;">2 3 8</td><td style="border: 1px solid black; padding: 2px;"><b>9</b></td></tr></table>	1 2 3 6	1 2 3 6	1 2 3 6	<b>4</b>	1 3 5 8	<del>2</del> 5 6	<b>7</b>	2 3 8	<b>9</b>	L5 <table style="width: 100%; border-collapse: collapse; font-size: x-small;"><tr><td style="border: 1px solid black; padding: 2px;">1 2 3 4 6</td><td style="border: 1px solid black; padding: 2px;"><b>5</b></td><td style="border: 1px solid black; padding: 2px;"><b>7</b></td><td style="border: 1px solid black; padding: 2px;"><b>9</b></td><td style="border: 1px solid black; padding: 2px;">1 3 8</td><td style="border: 1px solid black; padding: 2px;"><del>2</del> 6</td><td style="border: 1px solid black; padding: 2px;">1 2 3 8</td><td style="border: 1px solid black; padding: 2px;">2 3 4 8</td><td style="border: 1px solid black; padding: 2px;">1 2 3 6</td></tr></table>	1 2 3 4 6	<b>5</b>	<b>7</b>	<b>9</b>	1 3 8	<del>2</del> 6	1 2 3 8	2 3 4 8	1 2 3 6	L6 <table style="width: 100%; border-collapse: collapse; font-size: x-small;"><tr><td style="border: 1px solid black; padding: 2px;">1 2 3 4 6</td><td style="border: 1px solid black; padding: 2px;"><b>9</b></td><td style="border: 1px solid black; padding: 2px;"><b>8</b></td><td style="border: 1px solid black; padding: 2px;">1 3 2</td><td style="border: 1px solid black; padding: 2px;">1 3</td><td style="border: 1px solid black; padding: 2px;"><b>7</b></td><td style="border: 1px solid black; padding: 2px;">1 2 3 5</td><td style="border: 1px solid black; padding: 2px;">2 3 4</td><td style="border: 1px solid black; padding: 2px;">1 2 3 5 6</td></tr></table>	1 2 3 4 6	<b>9</b>	<b>8</b>	1 3 2	1 3	<b>7</b>	1 2 3 5	2 3 4	1 2 3 5 6	L7 <table style="width: 100%; border-collapse: collapse; font-size: x-small;"><tr><td style="border: 1px solid black; padding: 2px;">1 2 5 8</td><td style="border: 1px solid black; padding: 2px;">1 2 4</td><td style="border: 1px solid black; padding: 2px;">1 2 4 5</td><td style="border: 1px solid black; padding: 2px;">1 2 8</td><td style="border: 1px solid black; padding: 2px;"><b>6</b></td><td style="border: 1px solid black; padding: 2px;"><b>3</b></td><td style="border: 1px solid black; padding: 2px;"><b>9</b></td><td style="border: 1px solid black; padding: 2px;"><b>7</b></td><td style="border: 1px solid black; padding: 2px;">1 2 4</td></tr></table>	1 2 5 8	1 2 4	1 2 4 5	1 2 8	<b>6</b>	<b>3</b>	<b>9</b>	<b>7</b>	1 2 4	L8 <table style="width: 100%; border-collapse: collapse; font-size: x-small;"><tr><td style="border: 1px solid black; padding: 2px;"><b>7</b></td><td style="border: 1px solid black; padding: 2px;">1 2 3</td><td style="border: 1px solid black; padding: 2px;"><b>9</b></td><td style="border: 1px solid black; padding: 2px;"><del>5</del> 8</td><td style="border: 1px solid black; padding: 2px;">1 4 5</td><td style="border: 1px solid black; padding: 2px;"><del>2</del> 5</td><td style="border: 1px solid black; padding: 2px;"><b>6</b></td><td style="border: 1px solid black; padding: 2px;">2 3 8</td><td style="border: 1px solid black; padding: 2px;">1 2 3</td></tr></table>	<b>7</b>	1 2 3	<b>9</b>	<del>5</del> 8	1 4 5	<del>2</del> 5	<b>6</b>	2 3 8	1 2 3	L9 <table style="width: 100%; border-collapse: collapse; font-size: x-small;"><tr><td style="border: 1px solid black; padding: 2px;">1 2 3 6 8</td><td style="border: 1px solid black; padding: 2px;">1 2 3 4 6</td><td style="border: 1px solid black; padding: 2px;">1 2 3 4 6</td><td style="border: 1px solid black; padding: 2px;">1 2 8</td><td style="border: 1px solid black; padding: 2px;"><b>7</b></td><td style="border: 1px solid black; padding: 2px;"><b>9</b></td><td style="border: 1px solid black; padding: 2px;">1 2 3 4 8</td><td style="border: 1px solid black; padding: 2px;">5 8</td><td style="border: 1px solid black; padding: 2px;">1 2 3 4</td></tr></table>	1 2 3 6 8	1 2 3 4 6	1 2 3 4 6	1 2 8	<b>7</b>	<b>9</b>	1 2 3 4 8	5 8	1 2 3 4
1 <del>5</del> 6	<b>8</b>	1 2 4 <del>6</del>	<del>3</del> <b>5</b> 3	<del>3</del> <del>5</del> 3	1 4 <del>6</del>	4 <del>5</del>	<b>9</b>	<b>7</b>																																																																																	
2 3 5	<b>7</b>	2 3 4 5	<b>6</b>	<b>9</b>	<b>8</b>	2 3 4 5	<b>1</b>	2 3 4 5																																																																																	
<b>9</b>	1 3 4	1 3 4 5	<b>7</b>	<b>2</b>	1 4 <del>6</del>	4 5 3	<b>6</b>	<b>8</b>																																																																																	
1 2 3 6	1 2 3 6	1 2 3 6	<b>4</b>	1 3 5 8	<del>2</del> 5 6	<b>7</b>	2 3 8	<b>9</b>																																																																																	
1 2 3 4 6	<b>5</b>	<b>7</b>	<b>9</b>	1 3 8	<del>2</del> 6	1 2 3 8	2 3 4 8	1 2 3 6																																																																																	
1 2 3 4 6	<b>9</b>	<b>8</b>	1 3 2	1 3	<b>7</b>	1 2 3 5	2 3 4	1 2 3 5 6																																																																																	
1 2 5 8	1 2 4	1 2 4 5	1 2 8	<b>6</b>	<b>3</b>	<b>9</b>	<b>7</b>	1 2 4																																																																																	
<b>7</b>	1 2 3	<b>9</b>	<del>5</del> 8	1 4 5	<del>2</del> 5	<b>6</b>	2 3 8	1 2 3																																																																																	
1 2 3 6 8	1 2 3 4 6	1 2 3 4 6	1 2 8	<b>7</b>	<b>9</b>	1 2 3 4 8	5 8	1 2 3 4																																																																																	

### EXTENSION RG

- ~~8~~ L13C6
- ~~14~~ L45C6 ( 14 L13C6 )
- ~~14~~ L6C6 ( 14 L13C6 )
- ~~14~~ L1C4 ( 14 L13C6 )
- ~~14~~ L1C5 ( 14 L13C6 )
- ~~8~~ L1C137 ( 55 L1C45 )

VALIDATION 4 L8C5

# SOLUTION PAS A PAS

<b>GRILLE 655_10</b>			<b>ETAPE : 3</b>			solution proposée par Philippe www.sudokupasapas.fr		
C1	C2	C3	C4	C5	C6	C7	C8	C9
1 2 6	<b>8</b>	1 2 4 6	<b>5</b> <b>3</b>	<b>5</b> <b>3</b>	1 4	4 2	<b>9</b>	<b>7</b>
2 3 5	<b>7</b>	2 3 4 5	<b>6</b>	<b>9</b>	<b>8</b>	2 3 4 5	<b>1</b>	2 3 4 5
<b>9</b>	1 3 4	1 3 4 5	<b>7</b>	<b>2</b>	1 4	4 5 3	<b>6</b>	<b>8</b>
1 2 3 6	1 2 3 6	1 2 3 6	<b>4</b>	<del>5</del> <del>3</del> <b>5</b> <b>8</b>	2 <b>5</b> 6	<b>7</b>	2 3 8	<b>9</b>
<del>2</del> 3 4 6	<b>5</b>	<b>7</b>	<b>9</b>	1 3 8	2 6	1 2 3 <b>8</b>	2 3 4 8	1 2 3 6
<del>2</del> 3 4 6	<b>9</b>	<b>8</b>	<del>2</del> 3	1 3	<b>7</b>	1 2 3 5 4	2 3 4	1 2 3 5 6
1 2 5 8	1 2 4	1 2 4 5	1 2 8	<b>6</b>	<b>3</b>	<b>9</b>	<b>7</b>	1 2 4
<b>7</b>	1 2 3	<b>9</b>	<b>5</b> <b>8</b>	<b>4</b>	<b>2</b> <b>5</b>	<b>6</b>	2 3 <b>8</b>	1 2 3
1 2 3 6 8	1 2 3 4 6	1 2 3 4 6	1 2 8	<b>7</b>	<b>9</b>	1 2 3 4	<b>5</b>	1 2 3 4

~~X~~ L6C4 ( 11 L79C4 )

EXTENSION RG

~~X~~ L4C5  
~~X~~ L4C5

~~X~~ L56C1 ( 111 L4C123 )

# SOLUTION PAS A PAS

GRILLE 655_10			ETAPE : 4			solution proposée par Philippe www.sudokupasapas.fr			
C1	C2	C3	C4	C5	C6	C7	C8	C9	
L1	1 2 6	8	1 2 4 6	5 3	5 3	1 4	2 4	9	7
L2	2 3 5	7	2 3 4 5	6	9	8	2 3 4 5	1	2 3 4 5
L3	9	1 3 4	1 3 4 5	7	2	1 4	2 3 4 5	6	8
L4	1 2 3 6	1 2 3 6	1 2 3 6	4	5 8	2 5 6	7	2 3 8	9
L5	2 3 4 6	5	7	9	3	2 6	1 2 3 4 2 3	1 2 3 4 6	1 2 3 6
L6	2 3 4 6	9	8	2 3 1 3	7	1 2 3 5	2 3 4	1 2 3 5 6	1 2 3 6
L7	1 2 5 8	1 2 4	1 2 4 5	1 2 8	6	3	9	7	1 2 4
L8	7	1 2 3	9	5 8 4	4	2 5	6	2 3 8	1 2 3
L9	1 2 3 6 8	1 2 3 4 6	1 2 3 4 6	1 2 8	7	9	1 2 3 4 8	5	1 2 3 4

EXTENSION RG

~~8~~ L5C8

RVR

6	L6C9
5	L6C7
5	L2C9
5	L3C3
5	L7C1
1	L6C5

~~X~~ L5C5

VALIDATION 1 L6C5

# SOLUTION PAS A PAS

GRILLE 655_10			ETAPE : 5			solution proposée par Philippe www.sudokupasapas.fr			
C1	C2	C3	C4	C5	C6	C7	C8	C9	
L1	1 2 6	8	1 2 4 6	5 3	5 3 4	1 4	2 4	9	7
L2	2 3 5	7	2 3 4 5	6	9	8	2 3 4 5	1	2 3 5
L3	9	1 3 4	1 3 4 5	7	2	1 4	2 3 4 5	6	8
L4	1 2 3 6	1 2 3 6	1 2 3 6	4	5 3 8	2 5 6	7	2 3 8	9
L5	2 3 4 6	5	7	9	3	2 6	1 2 3 4	2 3 4	1 2 3 6
L6	2 3 4 6	9	8	2 3	1	7	2 3 4	2 3 4	2 3 5 6
L7	1 2 5 8	1 2 4	1 2 4 5	1 2 8	6	3	9	7	1 2 4
L8	7	1 2 3	9	5 4 8	4	2 5	6	2 3 8	1 2 3
L9	1 2 3 6 8	1 2 3 4 6	1 2 3 4 6	1 2 8	7	9	1 2 3 4	5	1 2 3 4

- ~~8~~ L6C79
- ~~23~~ L5C7 ( 18 L5C79 )
- ~~234~~ L9C7 ( 18 L5C79 )
- ~~4~~ L2C9 ( 44 L79C9 )
- ~~3~~ L2C9 ( 33 L23C7 )

# SOLUTION PAS A PAS

GRILLE 655_10			ETAPE : 6			solution proposée par Philippe www.sudokupasapas.fr		
C1	C2	C3	C4	C5	C6	C7	C8	C9
L1 1 2 6 8	1 2 4 6 8	5 3 5 3 4	1 4	2 3 5	4 5 6	1 4	2 9 7	
L2 2 3 5 7	4 2 3 4 5	6 9 8	4 5 6	2 3 4	1 2 3	4 5 6	1 2 3 5	2 3 4 6
L3 9	1 4 3 5	1 2 3 4 5 6 7	1 2 3 4 5 6 8	1 2 3 4 5 6 9	2 3 4 5 6 7	1 2 3 4 5 6 8	2 3 4 5 6 7	1 2 3 4 5 6 8
L4 1 2 3 6	1 2 3 6	1 2 3 6	4 9 8	5 3 5 3 8	2 3 4 5 6 7	1 2 3 4 5 6 8	2 3 4 5 6 7	1 2 3 4 5 6 8
L5 2 3 4 6	5 7	9 8	2 3 4 5 6 7	1 2 3 4	5 6 7 8	1 2 3 4 5 6 7	2 3 4 5 6 7	1 2 3 4 5 6 8
L6 2 3 4 6	9 8	2 3 4 5 6 7	1 2 3 4	5 6 7 8	1 2 3 4 5 6 7	2 3 4 5 6 7	1 2 3 4 5 6 7	2 3 4 5 6 7
L7 1 2 5 8	1 2 4	1 2 4 5	1 2 8	6 3 9	7 8 9	1 2 3 4	1 2 3 4	1 2 3 4
L8 7	1 2 3 5	9 8	1 2 3 4 5 6 7	2 3 4 5 6 7	1 2 3 4 5 6 7	2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7
L9 1 2 3 6 8	1 2 3 4 6	1 2 3 4 6	1 2 8	7 8	9 8	1 2 3 4	5 6 7 8	1 2 3 4

EXTENSION RG

RVR

3 L8C9  
1 L8C2

CONTRADICTION

24 L7C239

OK

# SOLUTION PAS A PAS

	GRILLE 655_10			SOLUTION			solution proposée par Philippe www.sudokupasapas.fr		
	C1	C2	C3	C4	C5	C6	C7	C8	C9
L1	2	8	6	5	3	1	4	9	7
L2	5	7	4	6	9	8	3	1	2
L3	9	3	1	7	2	4	5	6	8
L4	1	2	3	4	5	6	7	8	9
L5	4	5	7	9	8	2	1	3	6
L6	6	9	8	3	1	7	2	4	5
L7	8	4	5	2	6	3	9	7	1
L8	7	1	9	8	4	5	6	2	3
L9	3	6	2	1	7	9	8	5	4