

2004 IWYMIC Answers

Individual

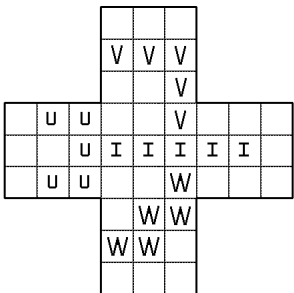
Part I

1.	4	2.	1	3.	8	4.	7206351									
5.	0	6.	(2, 2), (2, 4), (2, 7) and (4, 4)	7.	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td style="padding: 2px;">9</td><td style="padding: 2px;">2</td><td style="padding: 2px;">7</td></tr> <tr><td style="padding: 2px;">4</td><td style="padding: 2px;">5</td><td style="padding: 2px;">6</td></tr> <tr><td style="padding: 2px;">3</td><td style="padding: 2px;">8</td><td style="padding: 2px;">1</td></tr> </table>	9	2	7	4	5	6	3	8	1	8.	11, 13, 18, 19, 22
9	2	7														
4	5	6														
3	8	1														
9.	6	10.	16, 8													
11.	$0, \frac{\sqrt{21}-3}{6}, \frac{\sqrt{33}-3}{6}, \frac{\sqrt{5}-1}{2}, \frac{\sqrt{57}-3}{6}, \frac{\sqrt{69}-3}{6}$					12.	$-\frac{75}{8}$									

Part II

1.	17710	2.	3, 5, 15, 25 and 75	3.	$\frac{ac}{b+c}$
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Team

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2.		3.	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td style="padding: 2px;">1</td><td style="padding: 2px;">4</td><td style="padding: 2px;">3</td><td style="padding: 2px;">5</td><td style="padding: 2px;">2</td></tr> <tr><td style="padding: 2px;">3</td><td style="padding: 2px;">1</td><td style="padding: 2px;">2</td><td style="padding: 2px;">4</td><td style="padding: 2px;">5</td></tr> <tr><td style="padding: 2px;">2</td><td style="padding: 2px;">3</td><td style="padding: 2px;">5</td><td style="padding: 2px;">1</td><td style="padding: 2px;">4</td></tr> <tr><td style="padding: 2px;">5</td><td style="padding: 2px;">2</td><td style="padding: 2px;">4</td><td style="padding: 2px;">3</td><td style="padding: 2px;">1</td></tr> <tr><td style="padding: 2px;">4</td><td style="padding: 2px;">5</td><td style="padding: 2px;">1</td><td style="padding: 2px;">2</td><td style="padding: 2px;">3</td></tr> </table>			1	4	3	5	2	3	1	2	4	5	2	3	5	1	4	5	2	4	3	1	4	5	1	2	3																																																																											
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4.	15		5.	8. (1, 2, 4), (2, 3, 5), (3, 4, 6), (4, 5, 7), (5, 6, 1), (6, 7, 2), (7, 1, 3), (1, 2, 8), (3, 4, 8), (5, 6, 8), (1, 7, 8)																																																																																																					
6.	10.	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td></td><td style="color: red;">B</td><td style="color: red;">C</td><td style="color: red;">D</td><td style="color: red;">E</td><td style="color: red;">F</td><td style="color: red;">G</td><td style="color: red;">H</td><td style="color: red;">I</td><td style="color: red;">J</td></tr> <tr><td style="color: red;">A</td><td style="color: red;">B</td><td style="color: red;">C</td><td style="color: red;">D</td><td style="color: red;">E</td><td style="color: red;">F</td><td style="color: red;">A</td><td style="color: red;">A</td><td style="color: red;">A</td><td style="color: red;">A</td></tr> <tr><td style="color: red;">B</td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td></tr> <tr><td style="color: red;">C</td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="color: red;">G</td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td></tr> <tr><td style="color: red;">D</td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="color: red;">H</td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td></tr> <tr><td style="color: red;">E</td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="color: red;">I</td><td style="background-color: #f0f0f0;"></td></tr> <tr><td style="color: red;">F</td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="color: red;">J</td></tr> <tr><td style="color: red;">G</td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td></tr> <tr><td style="color: red;">H</td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td></tr> <tr><td style="color: red;">I</td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td><td style="background-color: #f0f0f0;"></td></tr> </table>					B	C	D	E	F	G	H	I	J	A	B	C	D	E	F	A	A	A	A	B										C						G				D							H			E								I		F									J	G										H										I									
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