Input:	Input:	Input:
8	8	15
-1	0	-1
123	120	1234
456	3 4 5	5678
078	678	9 10 11 12
		13 14 0 15
Output:	Output:	
•	•	Output:
2	2	•
left	right	1
left	right	left
Input:	Input:	Input:
8	8	8
8	-1	-1
123	123	653
456	456	248
078	780	701
0,70	700	701
Outmut	Output:	Output:
Output:	output.	Output.
2		21
	0	
2		21
2 left		21 left
2 left		21 left down
2 left		21 left down down
2 left		21 left down down right right up
2 left left Input:	O Input:	21 left down down right right
2 left left Input:	O Input: 8	21 left down down right right up
2 left left  Input:  8 4	0 Input: 8 -1	21 left down down right right up left
2 left left Input: 8 4 1 2 3	0 Input: 8 -1 1 2 3	21 left down down right right up left up right down
2 left left Input: 8 4 1 2 3 4 5 0	0 Input: 8 -1 1 2 3 4 5 6	21 left down down right right up left up right down left
2 left left Input: 8 4 1 2 3	0 Input: 8 -1 1 2 3	21 left down down right right up left up right down left down
2 left left Input: 8 4 1 2 3 4 5 0 6 7 8	Input:  8 -1 1 2 3 4 5 6 8 7 0	21 left down down right right up left up right down left
2 left left Input: 8 4 1 2 3 4 5 0	0 Input: 8 -1 1 2 3 4 5 6	21 left down down right right up left up right down left down
2 left left Input: 8 4 1 2 3 4 5 0 6 7 8 Output:	Input:  8 -1 1 2 3 4 5 6 8 7 0  Output:	21 left down down right right up left up right down left down left up right
2 left left  Input:  8 4 1 2 3 4 5 0 6 7 8  Output:  1	Input:  8 -1 1 2 3 4 5 6 8 7 0	21 left down down right right up left up right down left down left up right down
2 left left Input: 8 4 1 2 3 4 5 0 6 7 8 Output:	Input:  8 -1 1 2 3 4 5 6 8 7 0  Output:	21 left down down right right up left up right down left down left up right
2 left left  Input:  8 4 1 2 3 4 5 0 6 7 8  Output:  1	Input:  8 -1 1 2 3 4 5 6 8 7 0  Output:	21 left down down right right up left up right down left down left up right down left up
2 left left  Input:  8 4 1 2 3 4 5 0 6 7 8  Output:  1	Input:  8 -1 1 2 3 4 5 6 8 7 0  Output:	21 left down down right right up left up right down left down left up right down left up right down
2 left left  Input:  8 4 1 2 3 4 5 0 6 7 8  Output:  1	Input:  8 -1 1 2 3 4 5 6 8 7 0  Output:	21 left down down right right up left up right down left down left up right down left up