Display charts for binary relations

Example of a binary relation on S = {1, 2, 3, 4, ,5 6, 7, 8, 9, 10}: a is related to b if the quotient b/a is an integer. This can be represented by a chart as follows, where + means that (a,b) is a related pair and O means it is not:

b\a	1	2	3	4	5	6	7	8	9	10
1	+	O	O	O	O	O	O	O	O	O
2	+	+	O	O	O	O	O	O	O	O
3	+	O	+	O	O	O	O	O	O	O
4	+	+	O	+	O	O	O	O	O	O
5	+	O	O	O	+	O	O	O	O	O
6	+	+	+	O	O	+	O	O	O	O
7	+	O	O	O	O	O	+	O	O	O
8	+	+	O	+	O	O	O	+	O	O
9	+	O	+	O	O	O	O	O	+	O
10	+	+	O	O	+	O	O	O	O	+

Another example of a binary relation on S = {1, 2, 3, 4, ,5 6, 7, 8, 9, 10}: a is related to b if $|a - b| \leq 2$. This can be represented by a similar sort of chart:

b\a	1	2	3	4	5	6	7	8	9	10
1	+	+	+	O	O	O	O	O	O	O
2	+	+	+	+	O	O	O	O	O	O
3	+	+	+	+	+	O	O	O	O	O
4	O	+	+	+	+	+	O	O	O	O
5	O	O	+	+	+	+	+	O	O	O
6	O	O	O	+	+	+	+	+	O	O
7	O	O	O	O	+	+	+	+	+	O
8	O	O	O	O	O	+	+	+	+	+
9	O	O	O	O	O	O	+	+	+	+
10	O	O	O	O	O	O	O	+	+	+

Rock-paper-scissors. Will Player 1 win over Player 2?

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1\2	rock	paper	scissors
rock	no	no	yes
paper	yes	no	no
scissors	no	yes	no