Stable Pairings Problem

Pair each of the letters A through D with the numbers 1 through 4 so that the pairings are stable, according to the preferences listed below:

Letter	1st Choice	2nd Choice	3rd Choice	4th Choice
A	3	4	2	1
B	2	1	4	3
C	2	3	1	4
D	1	3	4	2

Number	1st Choice	2nd Choice	3rd Choice	4th Choice
1	B	A	C	D
2	B	C	A	D
3	A	D	C	B
4	A	C	D	B