Bidirectional GS algorithm (weighted preferences, option 1)

1st round

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	**15**	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	**15**	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

1st round (students)

- students A, C and D send offers to L and P

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L	A,D	**A**	
M		**B**	
N		**C**	
O		**D**	
P	C	**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

2nd round (firms)

- firm L accepts A and rejects D

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	L
M		**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

2nd round (students)

- student A is informed about the match with L

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	**15**	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	**15**	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

2nd round (students)

- student D is informed about the refusal of L

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	**15**	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	**15**	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

2nd round (firms)

- firms M and P send offers to C and B, respectively

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	P
N		**C**	M
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

3rd round (students)

- student E send offer to M

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	**15**	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	**15**	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M	E	**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

4th round (firms)

- firm N sends offer to A but A rejects immediately due to existing match with L

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	N
M		**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

4th round (firms)

- firm N is informed about refusal of A but it has to wait until t=8 for the next proposal

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

5th round (students)

- students B, C and E send offers to firms O and N

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N	E	**C**	
O	B,C	**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

6th round (students)

- firm O accepts C and rejects B

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	O
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

6th round (students)

- C is informed about the match with O and rejects P and M

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

6th round (firms)

- P is informed about refusal of C

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

6th round (firms)

- M is informed about refusal of C

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

6th round (students)

- student B is informed about refusal of O

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

7th round (firms)

- firm M accepts E

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	
P		**E**	M

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

7th round (students)

- E is informed about match with M and rejects N

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

7th round (students)

- N is informed about refusal of E

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

8th round (students)

- student B accepts offer of P

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	
P	B	**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

8th round (firms)

- firm P is informed about the match with B

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

9th round (firms)

- firm N sends offer to D

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	N
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

10th round (students)

- student D accepts offer of N

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N	D	**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

10th round (firms)

- firm N is informed about the match with D

→ **finished!**

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Proposal Table

L		**A**	
M		**B**	
N		**C**	
O		**D**	
P		**E**	

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

FINISHED!

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
A	L					M				N	O	P			
B				O			P	L				N		M	
C	P			O					L	M				N	
D	L								N	O		M			P
E			M	N					O	P			L		

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
p	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
L	A						D		B	E		C			
M	C					E				B		D	A		
N			A					D	C		B		E		
O				C						A	D	B			E
P	B					C				D				A	E

Matching Table

A	L	**sum of preferences of all players = <u>116</u>**	30
B	P		24
C	O		24
D	N		15
E	M		23

Explanation

	offer sent
	offer received
	match
	offer rejected / withdrawn

Bidirectional GS algorithm (weighted preferences, option 1)

FINISHED!

Students (proposers / acceptors)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
p	**15**	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**	**sum of p**	
A	L					M				N	O	P				40	
B				O			P	L				N		M		35	
C	P			O					L	M				N		42	
D	L								N	O		M			P	33	**total**
E			M	N					O	P			L			41	**191**

Firms (acceptors / proposers)

t	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
p	**15**	**14**	**13**	**12**	**11**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**	**sum of p**	
L	A						D		B	E		C				41	
M	C					E				B		D	A			38	
N			A					D	C		B		E			36	
O				C						A	D	B			E	28	**total**
P	B					C				D				A	E	34	**177**

Matching Table

A	L	**sum of preferences of all players = 116**	30
B	P		24
C	O		24
D	N		15
E	M		23

Explanation

The comparison to standard bidirectional GS algorithm is a bit more complex.
First, we have to sum up the preferences at which a candidate is marked for both tables. Then we have to set this number in relation to the added up preferences of standard bidir. GS algorithm:

(191 + 177) / 150 = 2.453333 (division factor) # 150 results from 2 x 5 x (5+4+3+2+1)

116 / 2.453333 = 47.2826 → Improvement compared to standard bidirectional GS algorithm just for this case. Sequence of preference order remains the same.