

With 4 directors voting the possible outcomes will be **4 - 0**, **3 - 1**, **2 - 1 - 1**, **2 - 2** and **1 - 1 - 1 - 1**
4 - 0 and **3 - 1** are outright majorities on the 1st round.
2 - 1 - 1 requires a 2nd, ranked choice round.
2 - 2 and **1 - 1 - 1 - 1** are ties on the 1st round and require 1 or more tie-breaking rounds,

2 - 1 - 1 EXAMPLES

		Ranked Choice round 1				Ranked Choice round 2				
		DIRECTOR				DIRECTOR				
APPLICANT	A	B	C	D	talley	A	B	C	D	talley
Joe	1	1	4	2	XX	1	1	4 -> 3	2 -> 1	XXX
Mary	4	5	2	4		4	5	2 -> 1	4 -> 3	X
Bob	2	3	1	5	X	2	3	1 -> 0	5 -> 4	
Susan	3	2	3	3		3	2	3 -> 2	3 -> 2	
Mike	5	4	5	1	X	5	4	5 -> 4	1 -> 0	

need 3 **Joe wins**

		Ranked Choice round 1				Ranked Choice round 2				
		DIRECTOR				DIRECTOR				
APPLICANT	A	B	C	D	talley	A	B	C	D	talley
Joe	1	1	3	2	XX	1	1	3 -> 2	2 -> 1	XXX
Mary	3	4	1	4	X	3	4	1 -> 0	4 -> 3	
Bob	2	3	2	1	X	2	3	2 -> 1	1 -> 0	X
Mike	4	2	4	3		4	2	4 -> 3	3 -> 2	

need 3 **Joe wins**

Ranked Choice round 1

APPLICANT	DIRECTOR				talley
	A	B	C	D	
Susan	1	8	7	6	X
Bob	2	3	8	7	
Mary	3	1	1	8	XX
Theo	4	2	2	1	X
Jane	5	4	3	2	
Homer	6	5	4	3	
Betty	7	6	5	4	
Charles	8	7	6	5	

need 3

Ranked Choice round 2

APPLICANT	DIRECTOR				talley
	A	B	C	D	
Susan	1 -> 0	8	7	6 -> 5	
Bob	2 -> 1	3	8	7 -> 6	X
Mary	3 -> 2	1	1	8 -> 7	XX
Theo	4 -> 3	2	2	1 -> 0	
Jane	5 -> 4	4	3	2 -> 1	X
Homer	6 -> 5	5	4	3 -> 2	
Betty	7 -> 6	6	5	4 -> 3	
Charles	8 -> 7	7	6	5 -> 4	

need 3

Ranked Choice round 3

APPLICANT	DIRECTOR				talley
	A	B	C	D	
Susan	0	0	8	7	5 -> 4
Bob	1 -> 0	3	8	6 -> 5	
Mary	2 -> 1	1	1	7 -> 6	XXX
Theo	3 -> 2	2	2	0	0
Jane	4 -> 3	4	3	1 -> 0	
Homer	5 -> 4	5	4	2 -> 1	X
Betty	6 -> 5	6	5	3 -> 2	
Charles	7 -> 6	7	6	4 -> 3	

Mary wins

THIS 2 - 1 - 1 EXAMPLE REQUIRES AN ADDITIONAL TIE-BREAKER ROUND.

Ranked Choice round 1

APPLICANT	DIRECTOR				talley
	A	B	C	D	
Joe	1	1	4	3	XX
Mary	3	3	2	2	
Bob	2	5	1	5	X
Susan	4	2	3	4	
Mike	5	4	5	1	X

need 3

Ranked Choice round 2

APPLICANT	DIRECTOR				talley
	A	B	C	D	
Joe	1	1	4 -> 3	3 -> 2	XX
Mary	3	3	2 -> 1	2 -> 1	XX
Bob	2	5	1 -> 0	5 -> 4	
Susan	4	2	3 -> 2	4 -> 3	
Mike	5	4	5 -> 4	1 -> 0	

Tie ----->

Tie breaker round:

Which of the tied applicants has the most 2s?

Joe has one 2 and Mary has none.

Joe wins.

2 - 2 EXAMPLE

Ranked Choice round 1

APPLICANT	DIRECTOR				talley
	A	B	C	D	
Joe	1	1	3	2	XX
Mary	3	4	1	1	XX
Bob	2	2	4	3	
Mike	4	3	2	4	

Tie breaker round:

Which of the tied applicants has the most 2's?

Joe has one 2 and Mary has none.

Joe wins.

Tie ----->

1 - 1 - 1 - 1 EXAMPLES

Ranked Choice round 1

APPLICANT	DIRECTOR				talley
	A	B	C	D	
JOE	1	5	4	3	X
MARY	4	1	2	4	X
BOB	2	3	1	5	X
SUSAN	3	2	5	2	
MIKE	5	4	3	1	X

Tie breaker round 1

Which of the tied applicants has the most 2's?

Mary and Bob each has one 2.

A two-way tie between Mary & Bob.

Tie breaker round 2

Between Mary and Bob, who has the most 3's?

Bob has one '3' and Mary has none.

Bob wins.

Tie ----->

Ranked Choice round 1

		DIRECTOR				
APPLICANT	A	B	C	D	talley	
JOE	1	5	4	2	X	
MARY	3	1	2	4	X	
BOB	2	3	1	3	X	
SUSAN	4	2	5	5		
MIKE	5	4	3	1	X	

Tie breaker round 1

Which of the tied applicants has the most 2's?
Joe, Mary and Bob each has one 2; Mike has none.
Joe, Mary & Bob are tied.

Tie breaker round 2

Among Joe, Mary and Bob, who has the most 3's?
Bob has two 3's and Mary has one.
Bob wins.

Tie ----->

Ranked Choice round 1

		DIRECTOR				
APPLICANT	A	B	C	D	talley	
Susan	1	3	7	2	X	
Bob	2	1	8	7	X	
Mary	3	4	6	6		
Theo	4	2	2	5		
Jane	5	6	1	4	X	
Homer	6	5	3	3		
Betty	7	8	5	8		
Charles	8	7	4	1	X	

Tie breaker round 1

Which of the tied applicants has the most 2's?
Susan and Bob each has one 2; Jane and Charles have none.
Susan & Bob are tied.

Tie breaker round 2

Between Susan and Bob, who has the most 3's?
Susan has one 3 and Bob has none.
Susan wins.

Tie ----->

Ranked Choice round 1

DIRECTOR

APPLICANT	A	B	C	D	talley
Susan	1	3	7	8	X
Bob	4	1	8	7	X
Mary	2	4	6	6	
Theo	3	2	2	5	
Jane	5	6	1	4	X
Homer	6	5	3	3	
Betty	7	8	5	2	
Charles	8	7	4	1	X

Tie breaker round 1

Which of the tied applicants has the most 2's?

No one has a 2.

Susan, Bob, Jane and Charles are still tied.

Tie breaker round 2

Between Susan, Bob, Jane and Charles, who has the most 3's?

Susan has one 3 and Bob, Jane and Charles have none.

Susan wins.

Tie ----->