

Poll Description: *New Broadway Plays* The Broadway theatre has successfully adapted many literary and cinematic classics to the stage. Please rank, which books and films you would like to see adapted next (1 most strongly preferred). Also no ties, thanks!

Results: Excluding 1 tie, there were 23 ballots and 20 different ballot types. (See: detailed ballot, reverse)

1	1	1	2	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1
A	A	D	B	B	C	D	B	D	B	E	E	C	D	E	C	A	A	C	A
B	B	E	A	D	E	E	C	E	A	D	B	D	C	B	A	C	D	B	C
E	D	B	C	E	D	A	A	C	D	A	E	B	D	D	B	B	A	E	E
C	C	C	E	A	A	C	E	B	E	C	C	B	E	C	E	E	E	E	D
D	E	A	D	C	B	B	D	A	C	B	D	A	A	A	B	D	C	D	B

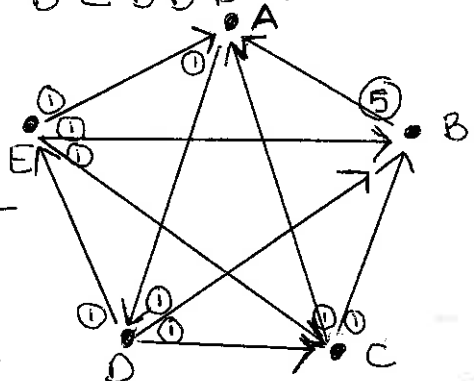
Key
 A = Glamorama
 B = Persuasion
 C = Dial m for murder
 D = Good Fellas
 E = million Dollar Baby
 n = 5
 N = 23

- A:B 9:14
- A:C 11:12
- A:D 12:11
- A:E 11:12

- B:C 11:12
- B:D 11:12
- B:E 11:12

- C:D 11:12
- C:E 11:12

- D:E 12:11



Majority candidate:
 needs $> \frac{n}{2}$ 1st place votes
 $= > 12$
 A=5
 B=5
 C=4
 D=6
 E=3
 } first place votes
NONE

Condorcet candidate: **NONE**

Beatpath:

B > A (5 > 1) B disqualifies A

Smith Set:

A > B > C > D > E

W = [B, C, D, E] because margins are 1, so none can disqualify each other.

D₀ = S = [D, A, E, C, B]

Runoff: A, B (5,5), and D (6) (see first place votes)

Because runoff was done with three candidates
 runoff B:D (B wins 2nd place in race above)
 11:12 **W = D**

Elimination:

one shot: D > B > A > C > E

Recursive: Round 1: Eliminate D (winner of one-shot)

Round 2: Eliminate B (5 points), A (5 points) and
 Eliminate C (5 points)

Round 3: A = 7 points
 B = 8 points
 C = 8 points so eliminate A
 runoff B:C
 11:12
w = [C]

Round 4: A:B 9:14
w = [B] thus, **D > E > C > B > A**

Plurality: (* see majority con. for 1st place votes)

one shot: D > A ~ B > C > E

Recursive: Round 1: Eliminate D (winner of 1-shot)

Round 2: Eliminate E

Round 3: Eliminate B and C

D > E > B ~ C > A

Pairwise:

A=1 one shot: D > E > C > A ~ B

B=1 Recursive: Round 1: elim. D & E

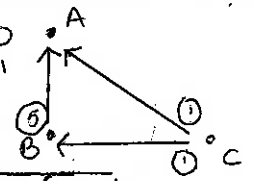
C=2 Round 2: A=0

D=3 B=1

E=3 elim. B, E C=1

total = 10

D > E > B ~ C > A



Ballot Report:

	Glamaorama	Persuasion	Dial M	GoodFellas	Million Dollar Baby
1.	1	2	4	5	3
2.	1	2	4	3	5
3.	5	3	4	1	2
4.	2	1	3	5	4
5.	4	1	5	2	3
6.	4	5	1	3	2
7.	3	5	4	1	2
8.	3	1	2	5	4
9.	2	1	3	5	4
10.	5	4	3	1	2
11.	2	1	5	3	4
12.	3	5	4	2	1
13.	3	2	4	5	1
14.	5	4	1	2	3
15.	5	3	2	1	4
16.	5	2	4	3	1
17.	5	4	3	1	2
18.	1	4	3	4	5
19.	2	5	1	3	4
20.	1	3	2	5	4
21.	1	3	5	2	4
22.	3	2	1	5	4
23.	1	5	2	4	3
24.	5	4	3	1	2

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	1	2	3	4	5
1. Persuasion (1817) by Jane Austen	-	11	14	11	12
2. Dial M For Murder (1954) directed by Alfred Hitchcock	13	-	11	12	12
3. Glamaorama (1998) by Bret Easton Elis	10	13	-	13	12
4. GoodFellas (1990) direct by Martin Scorese	12	12	11	-	13
5. Million Dollar Baby (2004) directed by Clint Eastwood	12	12	12	11	-

	1.	2.	3.	4.	5.
1. Persuasion (1817) by Jane Austen	-	13-14	13-13	11	11
2. Dial M For Murder (1954) directed by Alfred Hitchcock	13-11	-	13-11	13-11	13-11
3. Glamaorama (1998) by Bret Easton Elis	13-11	13-11	-	13-11	13-11
4. GoodFellas (1990) direct by Martin Scorese	12-11	12-11	12-11	-	13-11
5. Million Dollar Baby (2004) directed by Clint Eastwood	-	-	-	-	-

Extra Credit Vote Gradesheet

Name: Broadway Plays

Setup of poll (30):	substantive question	(10) 8
	$n \geq 5$	(10) ✓
	$N \geq 20$	(10) ✓
Presentation (40):	1 sheet of paper, no glue, no tape, no staples	(10) ✓
	detailed ballots from website	(10) ✓
	1-1 comparison results from website	(5) ✓
	beatpaths results from website	(5) ✓
	few ties, and they are marked	(5) ✓
	organized and legible, question and key	(5) ✓
Analysis (80):	preference schedule and 1-1 comparisons	(12) ✓
	statement of number of ballot types	(2) ✓
	graph with margins	(12) ✓
	Smith set	(4) ✓
	statement about Majority candidate	(2) ✓
	statement about Condorcet candidate	(2) ✓
	credit for no Condorcet candidate?	(10) ✓
	beatpath winner(s)	(8) ✓
	runoff winner(s)	(4) ✓
	plurality winner(s)	(5) ✓
	elimination winner(s)	(8) ✓
	pairwise winner(s)	(8) ✓
	check on pairwise points	(3) ✓

Grade (of 150 possible points): 148/150