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D:\anaconda\python.exe
C:\Users\lenovo\Desktop\start\modeling\problemC\problem1_final1.py
Found 34 seasons: [np.int64(1), np.int64(2), np.int64(3), np.int64(4), np.int64(5), np.int64(6),
np.int64(7), np.int64(8), np.int64(9), np.int64(10), np.int64(11), np.int64(12), np.int64(13),
np.int64(14), np.int64(15), np.int64(16), np.int64(17), np.int64(18), np.int64(19), np.int64(20),
np.int64(21), np.int64(22), np.int64(23), np.int64(24), np.int64(25), np.int64(26), np.int64(27),
np.int64(28), np.int64(29), np.int64(30), np.int64(31), np.int64(32), np.int64(33), np.int64(34)]
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ANALYZING SEASON 1 (1/34)
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FINAL MODEL - SEASON 1
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Using 'RANK' method for season 1
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Contestants: 6, Weeks: 6
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```
Eliminations: 5
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```
Phase 1: Global search...
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```
Phase 2: Local refinement...
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```
Optimization completed.
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```
Success: True
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Final objective: 1816720067276608.750000
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[Original Optimization Results]
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Satisfaction rate: 60.0%
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```
Average violation: 2.004000
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Violation by elimination week:
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Week 2: 0.000000
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Week 3: 0.000000
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Week 4: 0.000000
```

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Week 6: 5.010000
```

```
Week 6: 5.010000
```

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Top 5 estimated fan support (Week 1):
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1. Joey McIntrye : 23.4%
2. John O'Hurley : 22.0%
3. Evander Holyfield : 18.9%
4. Kelly Monaco : 16.2%
5. Rachel Hunter : 10.5%

==== Consistency Analysis Detail ====

Week 2: Trista Sutter	<input checked="" type="checkbox"/> Correct
Week 3: Evander Holyfield	<input checked="" type="checkbox"/> Correct
Week 4: Rachel Hunter	<input checked="" type="checkbox"/> Correct
Week 6: Joey McIntyre	<input checked="" type="checkbox"/> Predicted: Kelly Monaco
Week 6: John O'Hurley	<input checked="" type="checkbox"/> Predicted: Kelly Monaco

Overall Consistency Accuracy: 60.0%

==== Certainty Analysis (Feasible Range Probe) ====

Average Certainty Score: 0.4781

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
6	Joey McIntyre	1.0
6	Kelly Monaco	1.0
6	Kelly Monaco	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
3	Rachel Hunter	0.000000
3	John O'Hurley	0.000000
2	John O'Hurley	0.038631

Full certainty report for Season 1 saved to 'season_1_certainty_analysis.csv'

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ANALYZING SEASON 2 (2/34)

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FINAL MODEL - SEASON 2

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Using 'RANK' method for season 2

Contestants: 10, Weeks: 8

Eliminations: 9

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 1816720067276609.250000

[Original Optimization Results]

Satisfaction rate: 77.8%

Average violation: 1.113333

Violation by elimination week:

Week 1: 0.000000

Week 2: 0.000000

Week 3: 0.000000

Week 4: 0.000000

Week 5: 0.000000

Week 6: 0.000000

Week 7: 0.000000

Week 8: 5.010000

Week 8: 5.010000

Top 5 estimated fan support (Week 1):

1. Jerry Rice : 19.1%
2. Stacy Keibler : 12.1%
3. Master P : 9.7%
4. Drew Lachey : 9.7%
5. Giselle Fernandez : 9.6%

==== Consistency Analysis Detail ===

Week 1: Kenny Mayne		<input checked="" type="checkbox"/> Correct
Week 2: Tatum O'Neal		<input checked="" type="checkbox"/> Correct
Week 3: Giselle Fernandez		<input checked="" type="checkbox"/> Correct
Week 4: Master P		<input checked="" type="checkbox"/> Correct
Week 5: Tia Carrere		<input checked="" type="checkbox"/> Correct
Week 6: George Hamilton		<input checked="" type="checkbox"/> Correct
Week 7: Lisa Rinna		<input checked="" type="checkbox"/> Correct
Week 8: Jerry Rice		<input checked="" type="checkbox"/> Predicted: Drew Lachey
Week 8: Stacy Keibler		<input checked="" type="checkbox"/> Predicted: Drew Lachey

Overall Consistency Accuracy: 77.8%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.2751

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
8	Drew Lachey	1.0
8	Jerry Rice	1.0

8 Stacy Keibler 1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
4	Tia Carrere	0.0
4	Lisa Rinna	0.0
4	Stacy Keibler	0.0

Full certainty report for Season 2 saved to 'season_2_certainty_analysis.csv'

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ANALYZING SEASON 3 (3/34)

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FINAL MODEL - SEASON 3

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Using 'PERCENT' method for season 3

Contestants: 11, Weeks: 10

Eliminations: 10

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: False

Final objective: 3555771.831569

[Original Optimization Results]

Satisfaction rate: 80.0%

Average violation: 0.200200

Violation by elimination week:

Week 1: 0.000000

Week 2: 0.000001

Week 3: 0.000000

Week 4: 0.000000

Week 5: 0.000000

Week 7: 0.000000

Week 8: 0.000000

Week 9: 0.000000

Week 10: 1.001002

Week 10: 1.000998

Top 5 estimated fan support (Week 1):

1. Emmitt Smith : 13.2%
2. Mario Lopez : 12.5%
3. Joey Lawrence : 12.0%
4. Sara Evans : 11.7%
5. Jerry Springer : 9.9%

==== Consistency Analysis Detail ===

Week 1: Tucker Carlson	<input checked="" type="checkbox"/> Correct
Week 2: Shanna Moakler	<input checked="" type="checkbox"/> Correct
Week 3: Harry Hamlin	<input checked="" type="checkbox"/> Correct
Week 4: Vivica A. Fox	<input checked="" type="checkbox"/> Correct
Week 5: Willa Ford	<input checked="" type="checkbox"/> Correct
Week 7: Jerry Springer	<input checked="" type="checkbox"/> Correct
Week 8: Monique Coleman	<input checked="" type="checkbox"/> Correct
Week 9: Sara Evans	<input checked="" type="checkbox"/> Correct
Week 10: Joey Lawrence	<input checked="" type="checkbox"/> Predicted: Mario Lopez
Week 10: Mario Lopez	<input checked="" type="checkbox"/> Correct

Overall Consistency Accuracy: 90.0%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.4136

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
10	Emmitt Smith	1.0
10	Emmitt Smith	1.0
10	Mario Lopez	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
1	Mario Lopez	0.0000
1	Emmitt Smith	0.0000
1	Willa Ford	0.0037

Full certainty report for Season 3 saved to 'season_3_certainty_analysis.csv'

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ANALYZING SEASON 4 (4/34)

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FINAL MODEL - SEASON 4

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Using 'PERCENT' method for season 4

Contestants: 11, Weeks: 10

Eliminations: 10

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: False

Final objective: 3555775.069308

[Original Optimization Results]

Satisfaction rate: 80.0%

Average violation: 0.200200

Violation by elimination week:

Week 2: 0.000000

Week 3: 0.000000

Week 4: 0.000000

Week 5: 0.000000

Week 6: 0.000001

Week 7: 0.000000

Week 8: 0.000000

Week 9: 0.000000

Week 10: 1.000999

Week 10: 1.001001

Top 5 estimated fan support (Week 1):

1. Laila Ali : 12.0%

2. Apolo Anton Ohno : 12.0%

3. Joey Fatone : 11.9%

4. Ian Ziering : 11.6%

5. Billy Ray Cyrus : 11.4%

==== Consistency Analysis Detail ===

Week 2: Paulina Porizkova		<input checked="" type="checkbox"/> Correct
Week 3: Shandi Finnessey		<input checked="" type="checkbox"/> Correct
Week 4: Leeza Gibbons		<input checked="" type="checkbox"/> Correct
Week 5: Clyde Drexler		<input checked="" type="checkbox"/> Correct
Week 6: Heather Mills		<input checked="" type="checkbox"/> Correct
Week 7: John Ratzenberger		<input checked="" type="checkbox"/> Correct
Week 8: Billy Ray Cyrus		<input checked="" type="checkbox"/> Correct

Week 9: Ian Ziering	<input checked="" type="checkbox"/> Correct
Week 10: Laila Ali	<input checked="" type="checkbox"/> Correct
Week 10: Joey Fatone	<input checked="" type="checkbox"/> Predicted: Laila Ali
Overall Consistency Accuracy: 90.0%	

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.4574

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
10	Joey Fatone	1.0
10	Apolo Anton Ohno	1.0
10	Laila Ali	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
5	Apolo Anton Ohno	0.028952
5	Laila Ali	0.043354
5	Joey Fatone	0.056983

Full certainty report for Season 4 saved to 'season_4_certainty_analysis.csv'

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ANALYZING SEASON 5 (5/34)

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FINAL MODEL - SEASON 5

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Using 'PERCENT' method for season 5

Contestants: 12, Weeks: 10

Eliminations: 11

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 5597481.250333

[Original Optimization Results]

Satisfaction rate: 36.4%

Average violation: 0.348099

Violation by elimination week:

Week 1: 0.000000

Week 2: 0.526751

Week 3: 0.429955

Week 4: 0.439077

Week 5: 0.300312

Week 6: 0.000000

Week 7: 0.130992

Week 8: 0.000000

Week 9: 0.000000

Week 10: 1.004079

Week 10: 0.997921

Top 5 estimated fan support (Week 1):

1. Marie Osmond : 12.5%
2. Helio Castroneves : 12.5%
3. Mel B : 9.9%
4. Jennie Garth : 9.3%
5. Jane Seymour : 8.4%

==== Consistency Analysis Detail ===

Week 1: Josie Maran		<input checked="" type="checkbox"/> Correct
Week 2: Albert Reed		<input checked="" type="checkbox"/> Correct
Week 3: Wayne Newton		<input checked="" type="checkbox"/> Correct
Week 4: Floyd Mayweather Jr.		<input checked="" type="checkbox"/> Correct
Week 5: Mark Cuban		<input checked="" type="checkbox"/> Correct
Week 6: Sabrina Bryan		<input checked="" type="checkbox"/> Correct
Week 7: Jane Seymour		<input checked="" type="checkbox"/> Correct
Week 8: Cameron Mathison		<input checked="" type="checkbox"/> Correct
Week 9: Jennie Garth		<input checked="" type="checkbox"/> Correct
Week 10: Marie Osmond		<input checked="" type="checkbox"/> Predicted: Mel B
Week 10: Mel B		<input checked="" type="checkbox"/> Correct

Overall Consistency Accuracy: 90.9%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.4114

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
10	Marie Osmond	1.0

10	Mel B	1.0
10	Helio Castroneves	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
1	Sabrina Bryan	0.009114
1	Helio Castroneves	0.018716
1	Mel B	0.019778

Full certainty report for Season 5 saved to 'season_5_certainty_analysis.csv'

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ANALYZING SEASON 6 (6/34)

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FINAL MODEL - SEASON 6

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Using 'PERCENT' method for season 6

Contestants: 12, Weeks: 10

Eliminations: 11

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 8296797.918544

[Original Optimization Results]

Satisfaction rate: 63.6%

Average violation: 0.364000

Violation by elimination week:

Week 2: 1.001000

Week 2: 1.001000

Week 3: 0.000000

Week 4: 0.000000

Week 5: 0.000000

Week 6: 0.000000

Week 7: 0.000000

Week 8: 0.000000

Week 9: 0.000000

Week 10: 1.001001

Week 10: 1.000999

Top 5 estimated fan support (Week 1):

1. Kristi Yamaguchi : 13.2%
2. Cristian de la Fuente: 12.5%
3. Jason Taylor : 11.2%
4. Marissa Jaret Winokur: 11.0%
5. Mario : 9.7%

==== Consistency Analysis Detail ===

Week 2: Monica Seles		<input checked="" type="checkbox"/> Predicted: Penn Jillette
Week 2: Penn Jillette		<input checked="" type="checkbox"/> Correct
Week 3: Steve Guttenberg		<input checked="" type="checkbox"/> Correct
Week 4: Adam Carolla		<input checked="" type="checkbox"/> Correct
Week 5: Priscilla Presley		<input checked="" type="checkbox"/> Correct
Week 6: Marlee Matlin		<input checked="" type="checkbox"/> Correct
Week 7: Shannon Elizabeth		<input checked="" type="checkbox"/> Correct
Week 8: Mario		<input checked="" type="checkbox"/> Correct
Week 9: Marissa Jaret Winokur		<input checked="" type="checkbox"/> Correct
Week 10: Cristian de la Fuente		<input checked="" type="checkbox"/> Predicted: Jason Taylor
Week 10: Jason Taylor		<input checked="" type="checkbox"/> Correct

Overall Consistency Accuracy: 81.8%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.5173

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
2	Cristian de la Fuente	1.0
2	Monica Seles	1.0
10	Cristian de la Fuente	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
4	Shannon Elizabeth	0.036593
4	Kristi Yamaguchi	0.038085
4	Jason Taylor	0.041330

Full certainty report for Season 6 saved to 'season_6_certainty_analysis.csv'

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ANALYZING SEASON 7 (7/34)

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FINAL MODEL - SEASON 7

Using 'PERCENT' method for season 7

Contestants: 13, Weeks: 10

Eliminations: 12

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 14224615.759812

[Original Optimization Results]

Satisfaction rate: 50.0%

Average violation: 0.500500

Violation by elimination week:

Week 1: 1.004464

Week 1: 0.997536

Week 2: 0.000000

Week 4: 0.000000

Week 5: 0.000000

Week 6: 0.000000

Week 7: 0.000000

Week 8: 0.000000

Week 9: 1.000099

Week 9: 1.001901

Week 10: 0.998480

Week 10: 1.003520

Top 5 estimated fan support (Week 1):

1. Brooke Burke : 13.8%
2. Lance Bass : 11.5%
3. Warren Sapp : 11.5%
4. Misty May-Treanor : 11.1%
5. Cody Linley : 8.7%

==== Consistency Analysis Detail ===

Week 1: Jeffrey Ross

| Predicted: Ted McGinley

Week 1: Ted McGinley

| Correct

Week 2: Kim Kardashian	<input checked="" type="checkbox"/> Correct
Week 4: Rocco DiSpirito	<input checked="" type="checkbox"/> Correct
Week 5: Toni Braxton	<input checked="" type="checkbox"/> Correct
Week 6: Cloris Leachman	<input checked="" type="checkbox"/> Correct
Week 7: Susan Lucci	<input checked="" type="checkbox"/> Correct
Week 8: Maurice Greene	<input checked="" type="checkbox"/> Correct
Week 9: Misty May-Treanor	<input checked="" type="checkbox"/> Correct
Week 9: Cody Linley	<input checked="" type="checkbox"/> Predicted: Misty May-Treanor
Week 10: Warren Sapp	<input checked="" type="checkbox"/> Correct
Week 10: Lance Bass	<input checked="" type="checkbox"/> Predicted: Warren Sapp

Overall Consistency Accuracy: 75.0%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.5547

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
1	Ted McGinley	1.0
1	Brooke Burke	1.0
10	Lance Bass	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
4	Brooke Burke	0.029973
4	Lance Bass	0.030660
4	Susan Lucci	0.033701

Full certainty report for Season 7 saved to 'season_7_certainty_analysis.csv'

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ANALYZING SEASON 8 (8/34)

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FINAL MODEL - SEASON 8

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Using 'PERCENT' method for season 8

Contestants: 13, Weeks: 11

Eliminations: 12

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 8302980.877350

[Original Optimization Results]

Satisfaction rate: 66.7%

Average violation: 0.333667

Violation by elimination week:

Week 2: 0.000000

Week 3: 0.000000

Week 4: 1.011079

Week 4: 0.990921

Week 5: 0.000000

Week 6: 0.000000

Week 7: 0.000000

Week 8: 0.000000

Week 9: 0.000000

Week 10: 0.000000

Week 11: 0.997294

Week 11: 1.004706

Top 5 estimated fan support (Week 1):

1. Shawn Johnson : 10.7%

2. Melissa Rycroft : 10.5%

3. Gilles Marini : 10.4%

4. Ty Murray : 9.0%

5. Steve-O : 8.9%

==== Consistency Analysis Detail ===

Week 2: Belinda Carlisle	<input checked="" type="checkbox"/> Correct
Week 3: Denise Richards	<input checked="" type="checkbox"/> Correct
Week 4: Steve Wozniak	<input checked="" type="checkbox"/> Predicted: Holly Madison
Week 4: Holly Madison	<input checked="" type="checkbox"/> Correct
Week 5: David Alan Grier	<input checked="" type="checkbox"/> Correct
Week 6: Steve-O	<input checked="" type="checkbox"/> Correct
Week 7: Lawrence Taylor	<input checked="" type="checkbox"/> Correct
Week 8: Chuck Wicks	<input checked="" type="checkbox"/> Correct
Week 9: Lil' Kim	<input checked="" type="checkbox"/> Correct
Week 10: Ty Murray	<input checked="" type="checkbox"/> Correct
Week 11: Melissa Rycroft	<input checked="" type="checkbox"/> Correct
Week 11: Gilles Marini	<input checked="" type="checkbox"/> Predicted: Melissa Rycroft

Overall Consistency Accuracy: 83.3%

==== Certainty Analysis (Feasible Range Probe) ====

Average Certainty Score: 0.5673

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
11	Melissa Rycroft	1.0
4	David Alan Grier	1.0
4	Lawrence Taylor	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
6	Lil' Kim	0.063428
6	Melissa Rycroft	0.073612
6	Gilles Marini	0.077666

Full certainty report for Season 8 saved to 'season_8_certainty_analysis.csv'

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ANALYZING SEASON 9 (9/34)

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FINAL MODEL - SEASON 9

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Using 'PERCENT' method for season 9

Contestants: 16, Weeks: 10

Eliminations: 15

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 37463047.939344

[Original Optimization Results]

Satisfaction rate: 13.3%

Average violation: 0.808404

Violation by elimination week:

Week 1: 1.024737

Week 1: 0.977263
Week 2: 0.519759
Week 3: 0.933542
Week 4: 0.662741
Week 5: 0.000000
Week 6: 0.990569
Week 6: 1.011454
Week 7: 0.991807
Week 7: 1.010193
Week 8: 0.000000
Week 9: 1.000875
Week 9: 1.001125
Week 10: 1.003205
Week 10: 0.998795

Top 5 estimated fan support (Week 1):

1. Donny Osmond : 12.6%
2. Tom DeLay : 10.4%
3. Kelly Osbourne : 10.0%
4. Mya : 8.2%
5. Mark Dacascos : 7.3%

== Consistency Analysis Detail ==

Week 1: Ashley Hamilton	<input checked="" type="checkbox"/> Predicted: Macy Gray
Week 1: Macy Gray	<input checked="" type="checkbox"/> Correct
Week 2: Kathy Ireland	<input checked="" type="checkbox"/> Correct
Week 3: Debi Mazar	<input checked="" type="checkbox"/> Correct
Week 4: Chuck Liddell	<input checked="" type="checkbox"/> Correct
Week 5: Natalie Coughlin	<input checked="" type="checkbox"/> Correct
Week 6: Melissa Joan Hart	<input checked="" type="checkbox"/> Correct
Week 6: Louie Vito	<input checked="" type="checkbox"/> Predicted: Melissa Joan Hart
Week 7: Mark Dacascos	<input checked="" type="checkbox"/> Correct
Week 7: Michael Irvin	<input checked="" type="checkbox"/> Predicted: Mark Dacascos
Week 8: Aaron Carter	<input checked="" type="checkbox"/> Correct
Week 9: Tom DeLay	<input checked="" type="checkbox"/> Correct
Week 9: Joanna Krupa	<input checked="" type="checkbox"/> Predicted: Tom DeLay
Week 10: Kelly Osbourne	<input checked="" type="checkbox"/> Predicted: Mya
Week 10: Mya	<input checked="" type="checkbox"/> Correct

Overall Consistency Accuracy: 66.7%

== Certainty Analysis (Feasible Range Probe) ==

Average Certainty Score: 0.6420

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
1	Ashley Hamilton	1.0
6	Kelly Osbourne	1.0
9	Tom DeLay	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
2	Aaron Carter	0.017666
2	Mya	0.018861
2	Donny Osmond	0.028021

Full certainty report for Season 9 saved to 'season_9_certainty_analysis.csv'

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ANALYZING SEASON 10 (10/34)

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FINAL MODEL - SEASON 10

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Using 'PERCENT' method for season 10

Contestants: 11, Weeks: 10

Eliminations: 10

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 3555772.191665

[Original Optimization Results]

Satisfaction rate: 80.0%

Average violation: 0.200200

Violation by elimination week:

Week 2: 0.000000

Week 3: 0.000000

Week 4: 0.000000

Week 5: 0.000000

Week 6: 0.000000

Week 7: 0.000001

Week 8: 0.000000

Week 9: 0.000000

Week 10: 1.001002

Week 10: 1.000998

Top 5 estimated fan support (Week 1):

1. Evan Lysacek : 10.5%
2. Nicole Scherzinger : 10.5%
3. Erin Andrews : 10.3%
4. Chad Ochocinco : 10.3%
5. Kate Gosselin : 10.0%

==== Consistency Analysis Detail ===

Week 2: Shannen Doherty	<input checked="" type="checkbox"/> Correct
Week 3: Buzz Aldrin	<input checked="" type="checkbox"/> Correct
Week 4: Aiden Turner	<input checked="" type="checkbox"/> Correct
Week 5: Kate Gosselin	<input checked="" type="checkbox"/> Correct
Week 6: Jake Pavelka	<input checked="" type="checkbox"/> Correct
Week 7: Pamela Anderson	<input checked="" type="checkbox"/> Correct
Week 8: Niecy Nash	<input checked="" type="checkbox"/> Correct
Week 9: Chad Ochocinco	<input checked="" type="checkbox"/> Correct
Week 10: Evan Lysacek	<input checked="" type="checkbox"/> Predicted: Erin Andrews
Week 10: Erin Andrews	<input checked="" type="checkbox"/> Correct

Overall Consistency Accuracy: 90.0%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.3761

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
10	Nicole Scherzinger	1.0
10	Erin Andrews	1.0
10	Nicole Scherzinger	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
3	Evan Lysacek	0.049978
3	Nicole Scherzinger	0.058560
3	Erin Andrews	0.059356

Full certainty report for Season 10 saved to 'season_10_certainty_analysis.csv'

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= ANALYZING SEASON 11 (11/34)
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FINAL MODEL - SEASON 11
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Using 'PERCENT' method for season 11

Contestants: 12, Weeks: 10

Eliminations: 11

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 3884313.929305

[Original Optimization Results]

Satisfaction rate: 72.7%

Average violation: 0.204551

Violation by elimination week:

Week 1: 0.248064

Week 2: 0.000000

Week 3: 0.000000

Week 4: 0.000000

Week 5: 0.000000

Week 6: 0.000000

Week 7: 0.000000

Week 8: 0.000000

Week 9: 0.000000

Week 10: 1.002155

Week 10: 0.999845

Top 5 estimated fan support (Week 1):

1. Jennifer Grey : 13.8%
2. Kyle Massey : 13.4%
3. Bristol Palin : 12.4%
4. Kurt Warner : 11.5%
5. Brandy : 10.8%

==== Consistency Analysis Detail ===

Week 1: David Hasselhoff | Correct

Week 2: Michael Bolton	<input checked="" type="checkbox"/> Correct
Week 3: Margaret Cho	<input checked="" type="checkbox"/> Correct
Week 4: The Situation	<input checked="" type="checkbox"/> Correct
Week 5: Florence Henderson	<input checked="" type="checkbox"/> Correct
Week 6: Audrina Patridge	<input checked="" type="checkbox"/> Correct
Week 7: Rick Fox	<input checked="" type="checkbox"/> Correct
Week 8: Kurt Warner	<input checked="" type="checkbox"/> Correct
Week 9: Brandy	<input checked="" type="checkbox"/> Correct
Week 10: Bristol Palin	<input checked="" type="checkbox"/> Predicted: Kyle Massey
Week 10: Kyle Massey	<input checked="" type="checkbox"/> Correct

Overall Consistency Accuracy: 90.9%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.3086

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
10	Bristol Palin	1.0
10	Jennifer Grey	1.0
10	Kyle Massey	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
4	Jennifer Grey	0.0
2	Audrina Patridge	0.0
2	Jennifer Grey	0.0

Full certainty report for Season 11 saved to 'season_11_certainty_analysis.csv'

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ANALYZING SEASON 12 (12/34)

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FINAL MODEL - SEASON 12

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Using 'PERCENT' method for season 12

Contestants: 11, Weeks: 10

Eliminations: 10

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: False

Final objective: 3555778.141806

[Original Optimization Results]

Satisfaction rate: 80.0%

Average violation: 0.200200

Violation by elimination week:

Week 2: 0.000000

Week 3: 0.000000

Week 4: 0.000001

Week 5: 0.000000

Week 6: 0.000000

Week 7: 0.000000

Week 8: 0.000000

Week 9: 0.000000

Week 10: 1.001004

Week 10: 1.000996

Top 5 estimated fan support (Week 1):

1. Kirstie Alley : 13.1%
2. Ralph Macchio : 13.1%
3. Hines Ward : 13.1%
4. Chelsea Kane : 12.2%
5. Romeo : 9.9%

==== Consistency Analysis Detail ===

Week 2: Mike Catherwood		<input checked="" type="checkbox"/> Correct
Week 3: Wendy Williams		<input checked="" type="checkbox"/> Correct
Week 4: Sugar Ray Leonard		<input checked="" type="checkbox"/> Correct
Week 5: Petra Nemcova		<input checked="" type="checkbox"/> Correct
Week 6: Chris Jericho		<input checked="" type="checkbox"/> Correct
Week 7: Kendra Wilkinson		<input checked="" type="checkbox"/> Correct
Week 8: Romeo		<input checked="" type="checkbox"/> Correct
Week 9: Ralph Macchio		<input checked="" type="checkbox"/> Correct
Week 10: Kirstie Alley		<input checked="" type="checkbox"/> Predicted: Chelsea Kane
Week 10: Chelsea Kane		<input checked="" type="checkbox"/> Correct

Overall Consistency Accuracy: 90.0%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.3424

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
10	Hines Ward	1.0
10	Hines Ward	1.0
10	Kirstie Alley	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
3	Petra Nemcova	0.026768
3	Hines Ward	0.034901
3	Kendra Wilkinson	0.040763

Full certainty report for Season 12 saved to 'season_12_certainty_analysis.csv'

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ANALYZING SEASON 13 (13/34)

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FINAL MODEL - SEASON 13

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Using 'PERCENT' method for season 13

Contestants: 12, Weeks: 10

Eliminations: 11

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: False

Final objective: 3555846.294350

[Original Optimization Results]

Satisfaction rate: 81.8%

Average violation: 0.182000

Violation by elimination week:

Week 1: 0.000000

Week 2: 0.000000

Week 3: 0.000000

Week 4: 0.000000

Week 5: 0.000000

Week 6: 0.000001
Week 7: 0.000000
Week 8: 0.000000
Week 9: 0.000000
Week 10: 1.001001
Week 10: 1.000999

Top 5 estimated fan support (Week 1):

1. J.R. Martinez : 11.6%
2. Hope Solo : 11.4%
3. Ricki Lake : 11.0%
4. Chaz Bono : 9.7%
5. Nancy Grace : 9.7%

==== Consistency Analysis Detail ===

Week 1: Metta World Peace (Ron) | Correct
Week 2: Elisabetta Canalis | Correct
Week 3: Kristin Cavallari | Correct
Week 4: Chynna Phillips | Correct
Week 5: Carson Kressley | Correct
Week 6: Chaz Bono | Correct
Week 7: David Arquette | Correct
Week 8: Nancy Grace | Correct
Week 9: Hope Solo | Correct
Week 10: Ricki Lake | Predicted: Rob Kardashian
Week 10: Rob Kardashian | Correct
Overall Consistency Accuracy: 90.9%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.3766

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
10	J.R. Martinez	1.0
10	Rob Kardashian	1.0
10	J.R. Martinez	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
1	Chynna Phillips	0.003519
1	J.R. Martinez	0.005816
1	Ricki Lake	0.010957

Full certainty report for Season 13 saved to 'season_13_certainty_analysis.csv'

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ANALYZING SEASON 14 (14/34)

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FINAL MODEL - SEASON 14

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Using 'PERCENT' method for season 14

Contestants: 12, Weeks: 10

Eliminations: 11

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: False

Final objective: 8296883.369458

[Original Optimization Results]

Satisfaction rate: 63.6%

Average violation: 0.364000

Violation by elimination week:

Week 2: 0.000000

Week 3: 0.000000

Week 4: 0.000000

Week 5: 0.000000

Week 6: 0.000000

Week 7: 0.000001

Week 8: 1.000886

Week 8: 1.001114

Week 9: 0.000000

Week 10: 1.000911

Week 10: 1.001089

Top 5 estimated fan support (Week 1):

1. Katherine Jenkins : 14.2%
2. William Levy : 12.9%
3. Donald Driver : 10.7%
4. Jaleel White : 8.9%
5. Maria Menounos : 8.5%

==== Consistency Analysis Detail ===

Week 2: Martina Navratilova	<input checked="" type="checkbox"/> Correct
Week 3: Jack Wagner	<input checked="" type="checkbox"/> Correct
Week 4: Sherri Sheperd	<input checked="" type="checkbox"/> Correct
Week 5: Gavin DeGraw	<input checked="" type="checkbox"/> Correct
Week 6: Gladys Knight	<input checked="" type="checkbox"/> Correct
Week 7: Jaleel White	<input checked="" type="checkbox"/> Correct
Week 8: Melissa Gilbert	<input checked="" type="checkbox"/> Correct
Week 8: Roshon Fegan	<input checked="" type="checkbox"/> Predicted: Melissa Gilbert
Week 9: Maria Menounos	<input checked="" type="checkbox"/> Correct
Week 10: William Levy	<input checked="" type="checkbox"/> Correct
Week 10: Katherine Jenkins	<input checked="" type="checkbox"/> Predicted: William Levy

Overall Consistency Accuracy: 81.8%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.3464

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
10	Katherine Jenkins	1.0
8	Katherine Jenkins	1.0
8	Melissa Gilbert	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
2	Roshon Fegan	0.004564
2	Katherine Jenkins	0.006952
2	Maria Menounos	0.010779

Full certainty report for Season 14 saved to 'season_14_certainty_analysis.csv'

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ANALYZING SEASON 15 (15/34)

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FINAL MODEL - SEASON 15

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Using 'PERCENT' method for season 15

Contestants: 13, Weeks: 10

Eliminations: 12

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 22591569.206508

[Original Optimization Results]

Satisfaction rate: 33.3%

Average violation: 0.667341

Violation by elimination week:

Week 1: 0.000000

Week 2: 0.000000

Week 3: 0.930462

Week 3: 1.071538

Week 4: 0.000000

Week 6: 0.000000

Week 8: 0.890405

Week 8: 1.111691

Week 9: 0.992829

Week 9: 1.009171

Week 10: 1.033388

Week 10: 0.968612

Top 5 estimated fan support (Week 1):

1. Shawn Johnson : 10.3%
2. Melissa Rycroft : 10.2%
3. Kirstie Alley : 10.2%
4. Kelly Monaco : 10.2%
5. Emmitt Smith : 9.9%

==== Consistency Analysis Detail ===

Week 1: Pamela Anderson	<input checked="" type="checkbox"/> Correct
Week 2: Joey Fatone	<input checked="" type="checkbox"/> Correct
Week 3: Drew Lachey	<input checked="" type="checkbox"/> Correct
Week 3: Helio Castroneves	<input checked="" type="checkbox"/> Predicted: Drew Lachey
Week 4: Bristol Palin	<input checked="" type="checkbox"/> Correct
Week 6: Sabrina Bryan	<input checked="" type="checkbox"/> Correct
Week 8: Kirstie Alley	<input checked="" type="checkbox"/> Correct
Week 8: Gilles Marini	<input checked="" type="checkbox"/> Predicted: Kirstie Alley
Week 9: Emmitt Smith	<input checked="" type="checkbox"/> Correct
Week 9: Apolo Anton Ohno	<input checked="" type="checkbox"/> Predicted: Emmitt Smith

Week 10: Shawn Johnson | Predicted: Kelly Monaco
Week 10: Kelly Monaco | Correct
Overall Consistency Accuracy: 66.7%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.5493

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
8	Kirstie Alley	1.0
8	Melissa Rycroft	1.0
3	Gilles Marini	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
1	Emmitt Smith	0.014814
1	Gilles Marini	0.018144
1	Sabrina Bryan	0.023033

Full certainty report for Season 15 saved to 'season_15_certainty_analysis.csv'

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ANALYZING SEASON 16 (16/34)

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FINAL MODEL - SEASON 16

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Using 'PERCENT' method for season 16

Contestants: 12, Weeks: 10

Eliminations: 11

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 11111959.952758

[Original Optimization Results]

Satisfaction rate: 54.5%

Average violation: 0.455000

Violation by elimination week:

Week 3: 0.000000

Week 4: 0.000000

Week 5: 0.000000

Week 6: 0.000000

Week 7: 0.000000

Week 8: 0.000000

Week 9: 1.000090

Week 9: 1.001910

Week 10: 1.001000

Week 10: 1.001000

Week 10: 1.001000

Top 5 estimated fan support (Week 1):

1. Dorothy Hamill : 15.7%

2. Kellie Pickler : 15.1%

3. Andy Dick : 9.0%

4. Victor Ortiz : 7.3%

5. Zendaya : 7.3%

==== Consistency Analysis Detail ===

Week 3: Wynonna Judd | Correct

Week 4: Lisa Vanderpump | Correct

Week 5: D. L. Hughley | Correct

Week 6: Victor Ortiz | Correct

Week 7: Andy Dick | Correct

Week 8: Sean Lowe | Correct

Week 9: Dorothy Hamill | Correct

Week 9: Ingo Rademacher | Predicted: Dorothy Hamill

Week 10: Jacoby Jones | Correct

Week 10: Alexandra Raisman | Predicted: Jacoby Jones

Week 10: Zendaya | Predicted: Jacoby Jones

Overall Consistency Accuracy: 72.7%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.4483

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
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10	Kellie Pickler	1.0
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10	Zendaya	1.0
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9	Zendaya	1.0
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Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
3	Dorothy Hamill	0.053593
3	Zendaya	0.057291
3	Jacoby Jones	0.058493

Full certainty report for Season 16 saved to 'season_16_certainty_analysis.csv'

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ANALYZING SEASON 17 (17/34)

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FINAL MODEL - SEASON 17

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Using 'PERCENT' method for season 17

Contestants: 12, Weeks: 11

Eliminations: 11

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 6409815.907600

[Original Optimization Results]

Satisfaction rate: 63.6%

Average violation: 0.321454

Violation by elimination week:

Week 2: 0.532999

Week 3: 0.000000

Week 4: 0.000000

Week 5: 0.000000

Week 7: 0.000000

Week 8: 0.000000

Week 9: 0.000000

Week 10: 0.000000

Week 11: 1.001000

Week 11: 1.001000

Week 11: 1.001000

Top 5 estimated fan support (Week 1):

1. Bill Engvall : 12.1%
2. Amber Riley : 12.1%
3. Jack Osbourne : 11.2%
4. Corbin Bleu : 10.5%
5. Leah Remini : 10.1%

==== Consistency Analysis Detail ===

Week 2: Keyshawn Johnson	<input checked="" type="checkbox"/> Correct
Week 3: Bill Nye	<input checked="" type="checkbox"/> Correct
Week 4: Valerie Harper	<input checked="" type="checkbox"/> Correct
Week 5: Christina Milian	<input checked="" type="checkbox"/> Correct
Week 7: Nicole "Snooki" Polizzi	<input checked="" type="checkbox"/> Correct
Week 8: Brant Daugherty	<input checked="" type="checkbox"/> Correct
Week 9: Elizabeth Berkley Lauren	<input checked="" type="checkbox"/> Correct
Week 10: Leah Remini	<input checked="" type="checkbox"/> Correct
Week 11: Bill Engvall	<input checked="" type="checkbox"/> Predicted: Jack Osbourne
Week 11: Jack Osbourne	<input checked="" type="checkbox"/> Correct
Week 11: Corbin Bleu	<input checked="" type="checkbox"/> Predicted: Jack Osbourne

Overall Consistency Accuracy: 81.8%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.4725

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
11	Jack Osbourne	1.0
11	Corbin Bleu	1.0
11	Bill Engvall	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
4	Corbin Bleu	0.041078
4	Elizabeth Berkley Lauren	0.043045
4	Amber Riley	0.046855

Full certainty report for Season 17 saved to 'season_17_certainty_analysis.csv'

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ANALYZING SEASON 18 (18/34)

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FINAL MODEL - SEASON 18

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Using 'PERCENT' method for season 18

Contestants: 12, Weeks: 10

Eliminations: 11

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: False

Final objective: 25099399.318625

[Original Optimization Results]

Satisfaction rate: 0.0%

Average violation: 0.857601

Violation by elimination week:

Week 2: 1.044998

Week 2: 0.957002

Week 5: 0.680194

Week 6: 0.766168

Week 7: 0.522098

Week 8: 0.414380

Week 9: 1.069687

Week 9: 0.932313

Week 10: 1.029124

Week 10: 0.972876

Week 10: 1.044775

Top 5 estimated fan support (Week 1):

1. Candace Cameron Bure: 12.4%
2. Billy Dee Williams : 12.2%
3. Meryl Davis : 11.0%
4. James Maslow : 10.6%
5. Amy Purdy : 10.6%

==== Consistency Analysis Detail ===

Week 2: Diana Nyad	<input checked="" type="checkbox"/> Predicted: Sean Avery
Week 2: Sean Avery	<input checked="" type="checkbox"/> Correct
Week 5: Cody Simpson	<input checked="" type="checkbox"/> Correct
Week 6: Drew Carey	<input checked="" type="checkbox"/> Correct

Week 7: NeNe Leakes	<input checked="" type="checkbox"/> Correct
Week 8: Danica McKellar	<input checked="" type="checkbox"/> Correct
Week 9: Billy Dee Williams	<input checked="" type="checkbox"/> Predicted: Charlie White
Week 9: Charlie White	<input checked="" type="checkbox"/> Correct
Week 10: Candace Cameron Bure	<input checked="" type="checkbox"/> Predicted: James Maslow
Week 10: James Maslow	<input checked="" type="checkbox"/> Correct
Week 10: Amy Purdy	<input checked="" type="checkbox"/> Predicted: James Maslow

Overall Consistency Accuracy: 63.6%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.8529

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
2	Billy Dee Williams	1.0
2	Cody Simpson	1.0
9	Billy Dee Williams	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
7	Billy Dee Williams	0.140941
6	Billy Dee Williams	0.172638
10	Candace Cameron Bure	0.269887

Full certainty report for Season 18 saved to 'season_18_certainty_analysis.csv'

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ANALYZING SEASON 19 (19/34)

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FINAL MODEL - SEASON 19

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Using 'PERCENT' method for season 19

Contestants: 13, Weeks: 11

Eliminations: 12

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 9820855.954579

[Original Optimization Results]

Satisfaction rate: 33.3%

Average violation: 0.462919

Violation by elimination week:

Week 1: 0.553100

Week 2: 0.261243

Week 3: 0.000000

Week 4: 0.505938

Week 6: 0.804982

Week 7: 0.000000

Week 8: 0.414135

Week 9: 0.000000

Week 10: 0.000000

Week 11: 1.013629

Week 11: 0.991072

Week 11: 1.010928

Top 5 estimated fan support (Week 1):

1. Bethany Mota : 10.4%
2. Tommy Chong : 10.3%
3. Sadie Robertson : 10.0%
4. Janel Parrish : 10.0%
5. Alfonso Ribeiro : 10.0%

==== Consistency Analysis Detail ===

Week 1: Lolo Jones		<input checked="" type="checkbox"/> Correct
Week 2: Tavis Smiley		<input checked="" type="checkbox"/> Correct
Week 3: Randy Couture		<input checked="" type="checkbox"/> Correct
Week 4: Betsey Johnson		<input checked="" type="checkbox"/> Correct
Week 6: Jonathan Bennett		<input checked="" type="checkbox"/> Correct
Week 7: Antonio Sabato Jr.		<input checked="" type="checkbox"/> Correct
Week 8: Michael Waltrip		<input checked="" type="checkbox"/> Correct
Week 9: Lea Thompson		<input checked="" type="checkbox"/> Correct
Week 10: Tommy Chong		<input checked="" type="checkbox"/> Correct
Week 11: Bethany Mota		<input checked="" type="checkbox"/> Predicted: Janel Parrish
Week 11: Janel Parrish		<input checked="" type="checkbox"/> Correct
Week 11: Sadie Robertson		<input checked="" type="checkbox"/> Predicted: Janel Parrish

Overall Consistency Accuracy: 83.3%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.5199

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
11	Sadie Robertson	1.0
11	Sadie Robertson	1.0
11	Janel Parrish	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
3	Janel Parrish	0.016539
3	Bethany Mota	0.017002
3	Tommy Chong	0.033712

Full certainty report for Season 19 saved to 'season_19_certainty_analysis.csv'

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ANALYZING SEASON 20 (20/34)

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FINAL MODEL - SEASON 20

Using 'PERCENT' method for season 20

Contestants: 12, Weeks: 10

Eliminations: 11

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 12853581.752613

[Original Optimization Results]

Satisfaction rate: 18.2%

Average violation: 0.586392

Violation by elimination week:

Week 2: 0.574544

Week 3: 0.137293

Week 4: 0.719032

Week 5: 0.578699

Week 6: 0.000000

Week 7: 0.436742

Week 8: 1.033874

Week 8: 0.968126

Week 9: 0.000000

Week 10: 0.979089

Week 10: 1.022911

Top 5 estimated fan support (Week 1):

1. Noah Galloway : 10.9%
2. Robert Herjavec : 10.8%
3. Chris Soules : 10.5%
4. Rumer Willis : 10.0%
5. Riker Lynch : 9.8%

==== Consistency Analysis Detail ===

Week 2: Redfoo	<input checked="" type="checkbox"/> Correct
Week 3: Charlotte McKinney	<input checked="" type="checkbox"/> Correct
Week 4: Michael Sam	<input checked="" type="checkbox"/> Correct
Week 5: Suzanne Somers	<input checked="" type="checkbox"/> Correct
Week 6: Patti LaBelle	<input checked="" type="checkbox"/> Correct
Week 7: Willow Shields	<input checked="" type="checkbox"/> Correct
Week 8: Robert Herjavec	<input checked="" type="checkbox"/> Predicted: Chris Soules
Week 8: Chris Soules	<input checked="" type="checkbox"/> Correct
Week 9: Nastia Liukin	<input checked="" type="checkbox"/> Correct
Week 10: Noah Galloway	<input checked="" type="checkbox"/> Correct
Week 10: Riker Lynch	<input checked="" type="checkbox"/> Predicted: Noah Galloway

Overall Consistency Accuracy: 81.8%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.6065

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
10	Noah Galloway	1.0
8	Chris Soules	1.0
8	Riker Lynch	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
3	Nastia Liukin	0.028830
3	Riker Lynch	0.030817

3 Rumer Willis 0.036438

Full certainty report for Season 20 saved to 'season_20_certainty_analysis.csv'

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ANALYZING SEASON 21 (21/34)

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FINAL MODEL - SEASON 21

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Using 'PERCENT' method for season 21

Contestants: 13, Weeks: 11

Eliminations: 12

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: False

Final objective: 20099395.317103

[Original Optimization Results]

Satisfaction rate: 33.3%

Average violation: 0.656884

Violation by elimination week:

Week 2: 1.014389

Week 2: 0.987611

Week 4: 0.000000

Week 6: 0.000000

Week 7: 0.875609

Week 8: 0.000000

Week 9: 0.000000

Week 10: 1.007845

Week 10: 0.994155

Week 11: 1.001000

Week 11: 1.001000

Week 11: 1.001000

Top 5 estimated fan support (Week 1):

1. Alek Skarlatos : 11.4%

2. Bindi Irwin : 11.3%

3. Kim Zolciak-Biermann: 11.3%

4. Nick Carter : 10.7%
5. Carlos PenaVega : 10.7%

==== Consistency Analysis Detail ===

Week 2: Chaka Khan	<input checked="" type="checkbox"/> Predicted: Victor Espinoza
Week 2: Victor Espinoza	<input checked="" type="checkbox"/> Correct
Week 4: Gary Busey	<input checked="" type="checkbox"/> Correct
Week 6: Paula Deen	<input checked="" type="checkbox"/> Correct
Week 7: Hayes Grier	<input checked="" type="checkbox"/> Correct
Week 8: Andy Grammer	<input checked="" type="checkbox"/> Correct
Week 9: Alexa PenaVega	<input checked="" type="checkbox"/> Correct
Week 10: Kim Zolciak-Biermann	<input checked="" type="checkbox"/> Predicted: Tamar Braxton
Week 10: Tamar Braxton	<input checked="" type="checkbox"/> Correct
Week 11: Alek Skarlatos	<input checked="" type="checkbox"/> Predicted: Nick Carter
Week 11: Carlos PenaVega	<input checked="" type="checkbox"/> Predicted: Nick Carter
Week 11: Nick Carter	<input checked="" type="checkbox"/> Correct

Overall Consistency Accuracy: 66.7%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.6607

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
2	Gary Busey	1.0
11	Alek Skarlatos	1.0
10	Alek Skarlatos	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
4	Hayes Grier	0.020121
6	Andy Grammer	0.021909
4	Tamar Braxton	0.024916

Full certainty report for Season 21 saved to 'season_21_certainty_analysis.csv'

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ANALYZING SEASON 22 (22/34)

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FINAL MODEL - SEASON 22

Using 'PERCENT' method for season 22

Contestants: 12, Weeks: 10

Eliminations: 11

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 15181627.862646

[Original Optimization Results]

Satisfaction rate: 36.4%

Average violation: 0.562494

Violation by elimination week:

Week 2: 0.181431

Week 3: 0.000000

Week 4: 0.000000

Week 6: 0.000000

Week 7: 0.977219

Week 7: 1.024781

Week 8: 0.000000

Week 9: 1.002893

Week 9: 0.999107

Week 10: 1.012281

Week 10: 0.989719

Top 5 estimated fan support (Week 1):

1. Nyle DiMarco : 12.4%

2. Ginger Zee : 12.4%

3. Antonio Brown : 11.9%

4. Paige VanZant : 11.5%

5. Wanya Morris : 10.9%

==== Consistency Analysis Detail ===

Week 2: Geraldo Rivera	<input checked="" type="checkbox"/> Correct
Week 3: Mischa Barton	<input checked="" type="checkbox"/> Correct
Week 4: Marla Maples	<input checked="" type="checkbox"/> Correct
Week 6: Doug Flutie	<input checked="" type="checkbox"/> Correct
Week 7: Kim Fields	<input checked="" type="checkbox"/> Correct
Week 7: Von Miller	<input checked="" type="checkbox"/> Predicted: Kim Fields
Week 8: Jodie Sweetin	<input checked="" type="checkbox"/> Correct
Week 9: Antonio Brown	<input checked="" type="checkbox"/> Predicted: Wanya Morris

Week 9: Wanya Morris	<input checked="" type="checkbox"/> Correct
Week 10: Ginger Zee	<input checked="" type="checkbox"/> Predicted: Paige VanZant
Week 10: Paige VanZant	<input checked="" type="checkbox"/> Correct

Overall Consistency Accuracy: 72.7%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.5153

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
7	Kim Fields	1.0
9	Wanya Morris	1.0
7	Ginger Zee	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
2	Wanya Morris	0.005494
2	Paige VanZant	0.005911
2	Jodie Sweetin	0.014397

Full certainty report for Season 22 saved to 'season_22_certainty_analysis.csv'

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ANALYZING SEASON 23 (23/34)

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FINAL MODEL - SEASON 23

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Using 'PERCENT' method for season 23

Contestants: 13, Weeks: 11

Eliminations: 12

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 13427573.728057

[Original Optimization Results]

Satisfaction rate: 41.7%

Average violation: 0.525080

Violation by elimination week:

Week 2: 0.646480

Week 3: 0.649477

Week 4: 1.001012

Week 4: 1.000988

Week 6: 0.000000

Week 7: 0.000000

Week 8: 0.000000

Week 9: 0.000000

Week 10: 0.000000

Week 11: 1.001000

Week 11: 1.001000

Week 11: 1.001000

Top 5 estimated fan support (Week 1):

1. Jana Kramer : 11.4%

2. Laurie Hernandez : 11.4%

3. Calvin Johnson Jr. : 10.6%

4. James Hinchcliffe : 10.4%

5. Terra Jole : 9.0%

==== Consistency Analysis Detail ===

Week 2: Jake T. Austin		<input checked="" type="checkbox"/> Correct
Week 3: Rick Perry		<input checked="" type="checkbox"/> Correct
Week 4: Babyface		<input checked="" type="checkbox"/> Predicted: Vanilla Ice
Week 4: Vanilla Ice		<input checked="" type="checkbox"/> Correct
Week 6: Amber Rose		<input checked="" type="checkbox"/> Correct
Week 7: Maureen McCormick		<input checked="" type="checkbox"/> Correct
Week 8: Ryan Lochte		<input checked="" type="checkbox"/> Correct
Week 9: Marilu Henner		<input checked="" type="checkbox"/> Correct
Week 10: Terra Jole		<input checked="" type="checkbox"/> Correct
Week 11: Jana Kramer		<input checked="" type="checkbox"/> Correct
Week 11: Calvin Johnson Jr.		<input checked="" type="checkbox"/> Predicted: Jana Kramer
Week 11: James Hinchcliffe		<input checked="" type="checkbox"/> Predicted: Jana Kramer

Overall Consistency Accuracy: 75.0%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.5811

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
11	Jana Kramer	1.0
4	Laurie Hernandez	1.0
4	Laurie Hernandez	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
3	Calvin Johnson Jr.	0.033300
3	Laurie Hernandez	0.035694
3	Terra Jole	0.037706

Full certainty report for Season 23 saved to 'season_23_certainty_analysis.csv'

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ANALYZING SEASON 24 (24/34)

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FINAL MODEL - SEASON 24

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Using 'PERCENT' method for season 24

Contestants: 12, Weeks: 10

Eliminations: 11

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 10809434.837876

[Original Optimization Results]

Satisfaction rate: 36.4%

Average violation: 0.513059

Violation by elimination week:

Week 2: 0.562439

Week 3: 0.538609

Week 4: 0.538596

Week 5: 0.000000

Week 6: 0.000000

Week 7: 0.998855

Week 7: 1.003145

Week 8: 0.000000

Week 9: 0.000000

Week 10: 1.001476

Week 10: 1.000524

Top 5 estimated fan support (Week 1):

1. David Ross : 13.9%
2. Rashad Jennings : 12.8%
3. Normani : 11.9%
4. Simone Biles : 10.6%
5. Bonner Bolton : 9.7%

==== Consistency Analysis Detail =====

Week 2: Chris Kattan	<input checked="" type="checkbox"/> Correct
Week 3: Charo	<input checked="" type="checkbox"/> Correct
Week 4: Mr. T	<input checked="" type="checkbox"/> Correct
Week 5: Erika Jayne	<input checked="" type="checkbox"/> Correct
Week 6: Heather Morris	<input checked="" type="checkbox"/> Correct
Week 7: Nick Viall	<input checked="" type="checkbox"/> Correct
Week 7: Nancy Kerrigan	<input checked="" type="checkbox"/> Predicted: Nick Viall
Week 8: Bonner Bolton	<input checked="" type="checkbox"/> Correct
Week 9: Simone Biles	<input checked="" type="checkbox"/> Correct
Week 10: David Ross	<input checked="" type="checkbox"/> Predicted: Normani
Week 10: Normani	<input checked="" type="checkbox"/> Correct

Overall Consistency Accuracy: 81.8%

==== Certainty Analysis (Feasible Range Probe) =====

Average Certainty Score: 0.4341

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
7	Bonner Bolton	1.0
7	Simone Biles	1.0
10	Rashad Jennings	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
3	Heather Morris	0.021408
3	Nancy Kerrigan	0.023385
3	Normani	0.027273

Full certainty report for Season 24 saved to 'season_24_certainty_analysis.csv'

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= ANALYZING SEASON 25 (25/34)
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FINAL MODEL - SEASON 25
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Using 'PERCENT' method for season 25

Contestants: 13, Weeks: 10

Eliminations: 12

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 20425285.323836

[Original Optimization Results]

Satisfaction rate: 25.0%

Average violation: 0.678759

Violation by elimination week:

Week 2: 1.000837

Week 2: 1.001163

Week 4: 0.680509

Week 5: 0.457595

Week 6: 0.000000

Week 7: 1.002819

Week 7: 0.999181

Week 8: 0.000000

Week 9: 0.000000

Week 10: 1.001000

Week 10: 1.001003

Week 10: 1.001000

Top 5 estimated fan support (Week 1):

1. Jordan Fisher : 12.4%
2. Drew Scott : 11.2%
3. Frankie Muniz : 11.0%
4. Lindsey Stirling : 10.9%
5. Victoria Arlen : 8.4%

==== Consistency Analysis Detail ===

Week 2: Barbara Corcoran	<input checked="" type="checkbox"/> Correct
Week 2: Debbie Gibson	<input checked="" type="checkbox"/> Predicted: Barbara Corcoran
Week 4: Derek Fisher	<input checked="" type="checkbox"/> Correct
Week 5: Sasha Pieterse	<input checked="" type="checkbox"/> Correct
Week 6: Nick Lachey	<input checked="" type="checkbox"/> Correct
Week 7: Nikki Bella	<input checked="" type="checkbox"/> Predicted: Vanessa Lachey
Week 7: Vanessa Lachey	<input checked="" type="checkbox"/> Correct
Week 8: Terrell Owens	<input checked="" type="checkbox"/> Correct
Week 9: Victoria Arlen	<input checked="" type="checkbox"/> Correct
Week 10: Drew Scott	<input checked="" type="checkbox"/> Predicted: Lindsey Stirling
Week 10: Frankie Muniz	<input checked="" type="checkbox"/> Predicted: Lindsey Stirling
Week 10: Lindsey Stirling	<input checked="" type="checkbox"/> Correct
Overall Consistency Accuracy: 66.7%	

==== Certainty Analysis (Feasible Range Probe) ====

Average Certainty Score: 0.6158

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
10	Drew Scott	1.0
10	Frankie Muniz	1.0
2	Lindsey Stirling	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
2	Debbie Gibson	0.045327
6	Lindsey Stirling	0.047965
6	Terrell Owens	0.049267

Full certainty report for Season 25 saved to 'season_25_certainty_analysis.csv'

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ANALYZING SEASON 26 (26/34)

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FINAL MODEL - SEASON 26

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Using 'PERCENT' method for season 26

Contestants: 10, Weeks: 4

Eliminations: 9

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 25335083.658721

[Original Optimization Results]

Satisfaction rate: 0.0%

Average violation: 1.001000

Violation by elimination week:

Week 1: 1.001007

Week 1: 1.000993

Week 2: 1.001000

Week 2: 1.001000

Week 3: 1.001000

Week 3: 1.001000

Week 3: 1.001001

Week 4: 1.000998

Week 4: 1.001002

Top 5 estimated fan support (Week 1):

1. Adam Rippon : 18.0%

2. Josh Norman : 17.3%

3. Tonya Harding : 17.1%

4. Jennie Finch Daigle : 9.5%

5. Kareem Abdul-Jabbar : 7.4%

==== Consistency Analysis Detail ===

Week 1: Johnny Damon | Predicted: Jamie Anderson

Week 1: Jamie Anderson | Correct

Week 2: Kareem Abdul-Jabbar | Correct

Week 2: Arike Ogunbowale | Predicted: Kareem Abdul-Jabbar

Week 3: Jennie Finch Daigle | Correct

Week 3: Chris Mazdzer | Predicted: Jennie Finch Daigle

Week 3: Mirai Nagasu | Predicted: Jennie Finch Daigle

Week 4: Tonya Harding | Correct

Week 4: Josh Norman | Predicted: Tonya Harding

Overall Consistency Accuracy: 44.4%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.7818

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
1	Jamie Anderson	1.0
3	Tonya Harding	1.0
1	Johnny Damon	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
2	Arike Ogunbowale	0.074192
2	Mirai Nagasu	0.080082
2	Chris Mazdzer	0.083311

Full certainty report for Season 26 saved to 'season_26_certainty_analysis.csv'

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ANALYZING SEASON 27 (27/34)

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FINAL MODEL - SEASON 27

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Using 'PERCENT' method for season 27

Contestants: 13, Weeks: 9

Eliminations: 12

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: False

Final objective: 23837291.257791

[Original Optimization Results]

Satisfaction rate: 0.0%

Average violation: 0.743736

Violation by elimination week:

Week 1: 0.322536

Week 2: 0.563656

Week 3: 0.156397

Week 4: 0.636866

Week 6: 0.238380

Week 7: 0.999143

Week 7: 1.002857

Week 8: 1.000830

Week 8: 1.001170

Week 9: 1.001000

Week 9: 1.001000

Week 9: 1.001000

Top 5 estimated fan support (Week 1):

1. Bobby Bones : 12.1%
2. Alexis Ren : 11.4%
3. Milo Manheim : 10.8%
4. Evanna Lynch : 10.7%
5. Joe Amabile : 9.6%

==== Consistency Analysis Detail ===

Week 1: Nikki Glaser	<input checked="" type="checkbox"/> Correct
Week 2: Danelle Umstead	<input checked="" type="checkbox"/> Correct
Week 3: Nancy McKeon	<input checked="" type="checkbox"/> Correct
Week 4: Tinashe	<input checked="" type="checkbox"/> Correct
Week 6: Mary Lou Retton	<input checked="" type="checkbox"/> Correct
Week 7: DeMarcus Ware	<input checked="" type="checkbox"/> Correct
Week 7: John Schneider	<input checked="" type="checkbox"/> Predicted: DeMarcus Ware
Week 8: Joe Amabile	<input checked="" type="checkbox"/> Correct
Week 8: Juan Pablo Di Pace	<input checked="" type="checkbox"/> Predicted: Joe Amabile
Week 9: Alexis Ren	<input checked="" type="checkbox"/> Predicted: Evanna Lynch
Week 9: Evanna Lynch	<input checked="" type="checkbox"/> Correct
Week 9: Milo Manheim	<input checked="" type="checkbox"/> Predicted: Evanna Lynch

Overall Consistency Accuracy: 66.7%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.6043

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
9	Alexis Ren	1.0
8	Joe Amabile	1.0
7	Juan Pablo Di Pace	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
2	Joe Amabile	0.060298

1 Joe Amabile 0.062273
2 Juan Pablo Di Pace 0.121796

Full certainty report for Season 27 saved to 'season_27_certainty_analysis.csv'

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ANALYZING SEASON 28 (28/34)

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FINAL MODEL - SEASON 28

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Using 'RANK' method for season 28

Contestants: 12, Weeks: 11

Eliminations: 11

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective:

672296793786489109182994126793483370664267447210152671938871296.000000

[Original Optimization Results]

Satisfaction rate: 54.5%

Average violation: 8.277273

Violation by elimination week:

Week 2: 0.000000

Week 4: 0.000000

Week 6: 27.010000

Week 7: 0.000000

Week 8: 16.010000

Week 9: 0.000000

Week 10: 16.010000

Week 10: 0.000000

Week 11: 0.000000

Week 11: 16.010000

Week 11: 16.010000

Top 5 estimated fan support (Week 1):

1. Hannah Brown : 12.9%

2. Lauren Alaina : 12.5%

3. Ray Lewis	:	11.4%
4. Kel Mitchell	:	11.4%
5. Sean Spicer	:	8.9%

==== Consistency Analysis Detail ===

Week 2: Mary Wilson		<input checked="" type="checkbox"/> Correct
Week 4: Lamar Odom		<input checked="" type="checkbox"/> Correct
Week 6: Sailor Brinkley-Cook		<input checked="" type="checkbox"/> Predicted: Karamo Brown
Week 7: Karamo Brown		<input checked="" type="checkbox"/> Correct
Week 8: Kate Flannery		<input checked="" type="checkbox"/> Predicted: Sean Spicer
Week 9: Sean Spicer		<input checked="" type="checkbox"/> Correct
Week 10: Ray Lewis		<input checked="" type="checkbox"/> Predicted: James Van Der Beek
Week 10: James Van Der Beek		<input checked="" type="checkbox"/> Correct
Week 11: Lauren Alaina		<input checked="" type="checkbox"/> Correct
Week 11: Kel Mitchell		<input checked="" type="checkbox"/> Predicted: Lauren Alaina
Week 11: Ally Brooke		<input checked="" type="checkbox"/> Predicted: Lauren Alaina

Overall Consistency Accuracy: 54.5%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.5062

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
11	Hannah Brown	1.0
8	Ally Brooke	1.0
6	Karamo Brown	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
11	Ally Brooke	0.000000
10	Hannah Brown	0.040047
10	Kel Mitchell	0.040084

Full certainty report for Season 28 saved to 'season_28_certainty_analysis.csv'

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ANALYZING SEASON 29 (29/34)

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FINAL MODEL - SEASON 29

Using 'RANK' method for season 29

Contestants: 15, Weeks: 11

Eliminations: 14

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 1863902773967031075344696272098091335680.000000

[Original Optimization Results]

Satisfaction rate: 57.1%

Average violation: 3.718571

Violation by elimination week:

Week 2: 0.000000

Week 3: 0.000000

Week 4: 0.000000

Week 5: 0.000000

Week 6: 0.000000

Week 7: 0.000000

Week 8: 0.000000

Week 9: 0.000000

Week 10: 5.010000

Week 10: 16.010000

Week 10: 5.010000

Week 11: 5.010000

Week 11: 16.010000

Week 11: 5.010000

Top 5 estimated fan support (Week 1):

1. Kaitlyn Bristowe : 12.7%
2. Jeannie Mai : 10.9%
3. Skai Jackson : 10.6%
4. Justina Machado : 10.5%
5. AJ McLean : 9.2%

== Consistency Analysis Detail ==

Week 2: Charles Oakley		<input checked="" type="checkbox"/> Correct
Week 3: Carole Baskin		<input checked="" type="checkbox"/> Correct
Week 4: Anne Heche		<input checked="" type="checkbox"/> Correct
Week 5: Jesse Metcalfe		<input checked="" type="checkbox"/> Correct
Week 6: Veron Davis		<input checked="" type="checkbox"/> Correct

Week 7: Monica Aldama	<input checked="" type="checkbox"/> Correct
Week 8: Chrishell Stause	<input checked="" type="checkbox"/> Correct
Week 9: AJ McLean	<input checked="" type="checkbox"/> Correct
Week 10: Jeannie Mai	<input checked="" type="checkbox"/> Predicted: Johnny Weir
Week 10: Skai Jackson	<input checked="" type="checkbox"/> Predicted: Johnny Weir
Week 10: Johnny Weir	<input checked="" type="checkbox"/> Correct
Week 11: Nelly	<input checked="" type="checkbox"/> Predicted: Nev Schulman
Week 11: Justina Machado	<input checked="" type="checkbox"/> Predicted: Nev Schulman
Week 11: Nev Schulman	<input checked="" type="checkbox"/> Correct

Overall Consistency Accuracy: 71.4%

== Certainty Analysis (Feasible Range Probe) ==

Average Certainty Score: 0.3054

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
10	Justina Machado	1.0
10	Nev Schulman	1.0
10	Johnny Weir	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
4	Veron Davis	0.0
4	Chrishell Stause	0.0
4	Skai Jackson	0.0

Full certainty report for Season 29 saved to 'season_29_certainty_analysis.csv'

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ANALYZING SEASON 30 (30/34)

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FINAL MODEL - SEASON 30

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Using 'RANK' method for season 30

Contestants: 15, Weeks: 10

Eliminations: 14

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 15139333893971740.000000

[Original Optimization Results]

Satisfaction rate: 28.6%

Average violation: 3.578571

Violation by elimination week:

Week 2: 0.000000

Week 3: 0.000000

Week 4: 5.010000

Week 4: 5.010000

Week 5: 5.010000

Week 6: 0.000000

Week 7: 0.000000

Week 8: 5.010000

Week 8: 5.010000

Week 9: 5.010000

Week 9: 5.010000

Week 10: 5.010000

Week 10: 5.010000

Week 10: 5.010000

Top 5 estimated fan support (Week 1):

1. Amanda Kloots : 10.5%
2. Cody Rigsby : 10.3%
3. Melora Hardin : 10.2%
4. Jimmie Allen : 9.4%
5. Iman Shumpert : 9.1%

==== Consistency Analysis Detail ===

Week 2: Martin Kove	<input checked="" type="checkbox"/> Correct
Week 3: Christine Chiu	<input checked="" type="checkbox"/> Correct
Week 4: Brian Austin Green	<input checked="" type="checkbox"/> Predicted: Matt James
Week 4: Matt James	<input checked="" type="checkbox"/> Correct
Week 5: Melanie C	<input checked="" type="checkbox"/> Correct
Week 6: Kenya Moore	<input checked="" type="checkbox"/> Correct
Week 7: Mike "The Miz" Mizanin	<input checked="" type="checkbox"/> Correct
Week 8: Jimmie Allen	<input checked="" type="checkbox"/> Predicted: JoJo Siwa
Week 8: Olivia Jade	<input checked="" type="checkbox"/> Predicted: JoJo Siwa
Week 9: Melora Hardin	<input checked="" type="checkbox"/> Predicted: Suni Lee
Week 9: Suni Lee	<input checked="" type="checkbox"/> Correct
Week 10: Cody Rigsby	<input checked="" type="checkbox"/> Predicted: JoJo Siwa

Week 10: Amanda Kloots | Predicted: JoJo Siwa
Week 10: JoJo Siwa | Correct
Overall Consistency Accuracy: 57.1%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.5065

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
8	Amanda Kloots	1.0
8	Melora Hardin	1.0
8	JoJo Siwa	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
7	JoJo Siwa	0.0
6	Jimmie Allen	0.0
6	Cody Rigsby	0.0

Full certainty report for Season 30 saved to 'season_30_certainty_analysis.csv'

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ANALYZING SEASON 31 (31/34)

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FINAL MODEL - SEASON 31

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Using 'RANK' method for season 31

Contestants: 16, Weeks: 10

Eliminations: 15

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 1048445310356454960991925721576595521536.000000

[Original Optimization Results]

Satisfaction rate: 46.7%

Average violation: 3.405333

Violation by elimination week:

Week 1: 0.000000
Week 2: 0.000000
Week 3: 0.000000
Week 4: 0.000000
Week 5: 0.000000
Week 6: 0.000000
Week 7: 0.000000
Week 8: 5.010000
Week 8: 5.010000
Week 9: 5.010000
Week 9: 5.010000
Week 9: 5.010000
Week 10: 16.010000
Week 10: 5.010000
Week 10: 5.010000

Top 5 estimated fan support (Week 1):

1. Wayne Brady : 17.3%
2. Charli D'Amelio : 12.1%
3. Daniel Durant : 10.7%
4. Shangela : 9.1%
5. Gabby Windey : 6.2%

==== Consistency Analysis Detail ===

Week 1: Jason Lewis	<input checked="" type="checkbox"/> Correct
Week 2: Teresa Giudice	<input checked="" type="checkbox"/> Correct
Week 3: Cheryl Ladd	<input checked="" type="checkbox"/> Correct
Week 4: Sam Champion	<input checked="" type="checkbox"/> Correct
Week 5: Joseph Baena	<input checked="" type="checkbox"/> Correct
Week 6: Jessie James Decker	<input checked="" type="checkbox"/> Correct
Week 7: Jordin Sparks	<input checked="" type="checkbox"/> Correct
Week 8: Vinny Guadagnino	<input checked="" type="checkbox"/> Predicted: Heidi D'Amelio
Week 8: Heidi D'Amelio	<input checked="" type="checkbox"/> Correct
Week 9: Trevor Donovan	<input checked="" type="checkbox"/> Predicted: Selma Blair
Week 9: Daniel Durant	<input checked="" type="checkbox"/> Predicted: Selma Blair
Week 9: Selma Blair	<input checked="" type="checkbox"/> Correct
Week 10: Wayne Brady	<input checked="" type="checkbox"/> Predicted: Gabby Windey
Week 10: Shangela	<input checked="" type="checkbox"/> Predicted: Gabby Windey
Week 10: Gabby Windey	<input checked="" type="checkbox"/> Correct

Overall Consistency Accuracy: 66.7%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.3593

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
9	Selma Blair	1.0
8	Heidi D'Amelio	1.0
9	Daniel Durant	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
4	Joseph Baena	0.000000
2	Cheryl Ladd	0.020885
1	Vinny Guadagnino	0.025134

Full certainty report for Season 31 saved to 'season_31_certainty_analysis.csv'

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ANALYZING SEASON 32 (32/34)

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FINAL MODEL - SEASON 32

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Using 'RANK' method for season 32

Contestants: 14, Weeks: 11

Eliminations: 13

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective:

761936366291354494249251032304621610516066923737858654722850816.000000

[Original Optimization Results]

Satisfaction rate: 46.2%

Average violation: 7.774615

Violation by elimination week:

Week 1: 0.000000

Week 2: 0.000000

Week 3: 0.000000
Week 4: 0.000000
Week 5: 0.000000
Week 6: 16.010000
Week 7: 16.010000
Week 8: 27.010000
Week 9: 0.000000
Week 11: 5.010000
Week 11: 5.010000
Week 11: 16.010000
Week 11: 16.010000

Top 5 estimated fan support (Week 1):

1. Alyson Hannigan : 11.9%
2. Ariana Madix : 11.8%
3. Charity Lawson : 11.1%
4. Harry Jowsey : 10.0%
5. Barry Williams : 9.0%

==== Consistency Analysis Detail ====

Week 1: Matt Walsh	<input checked="" type="checkbox"/> Correct
Week 2: Jamie Lynn Spears	<input checked="" type="checkbox"/> Correct
Week 3: Tyson Beckford	<input checked="" type="checkbox"/> Correct
Week 4: Adrian Peterson	<input checked="" type="checkbox"/> Correct
Week 5: Mira Sorvino	<input checked="" type="checkbox"/> Correct
Week 6: Mauricio Umansky	<input checked="" type="checkbox"/> Predicted: Lele Pons
Week 7: Lele Pons	<input checked="" type="checkbox"/> Predicted: Barry Williams
Week 8: Barry Williams	<input checked="" type="checkbox"/> Predicted: Jason Mraz
Week 9: Harry Jowsey	<input checked="" type="checkbox"/> Correct
Week 11: Alyson Hannigan	<input checked="" type="checkbox"/> Predicted: Xochitl Gomez
Week 11: Charity Lawson	<input checked="" type="checkbox"/> Predicted: Xochitl Gomez
Week 11: Ariana Madix	<input checked="" type="checkbox"/> Predicted: Xochitl Gomez
Week 11: Jason Mraz	<input checked="" type="checkbox"/> Predicted: Xochitl Gomez

Overall Consistency Accuracy: 46.2%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.4815

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
11	Ariana Madix	1.0
6	Ariana Madix	1.0

11 Jason Mraz 1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
1	Jamie Lynn Spears	0.0
3	Barry Williams	0.0
3	Alyson Hannigan	0.0

Full certainty report for Season 32 saved to 'season_32_certainty_analysis.csv'

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ANALYZING SEASON 33 (33/34)

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FINAL MODEL - SEASON 33

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Using 'RANK' method for season 33

Contestants: 13, Weeks: 9

Eliminations: 12

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 10900320403659654.000000

[Original Optimization Results]

Satisfaction rate: 33.3%

Average violation: 3.340000

Violation by elimination week:

Week 2: 5.010000

Week 2: 5.010000

Week 3: 5.010000

Week 3: 5.010000

Week 4: 0.000000

Week 5: 0.000000

Week 6: 0.000000

Week 7: 0.000000

Week 9: 5.010000

Week 9: 5.010000

Week 9: 5.010000

Week 9: 5.010000

Top 5 estimated fan support (Week 1):

1. Danny Amendola : 11.5%
2. Ilona Maher : 11.2%
3. Joey Graziadei : 11.2%
4. Stephen Nedoroscik : 11.1%
5. Reginald VelJohnson : 10.1%

==== Consistency Analysis Detail ===

Week 2: Anna Delvey	<input checked="" type="checkbox"/> Predicted: Brooks Nader
Week 2: Tori Spelling	<input checked="" type="checkbox"/> Predicted: Brooks Nader
Week 3: Reginald VelJohnson	<input checked="" type="checkbox"/> Predicted: Brooks Nader
Week 3: Eric Roberts	<input checked="" type="checkbox"/> Predicted: Brooks Nader
Week 4: Brooks Nader	<input checked="" type="checkbox"/> Correct
Week 5: Phaedra Parks	<input checked="" type="checkbox"/> Correct
Week 6: Jenn Tran	<input checked="" type="checkbox"/> Correct
Week 7: Dwight Howard	<input checked="" type="checkbox"/> Correct
Week 9: Danny Amendola	<input checked="" type="checkbox"/> Predicted: Chandler Kinney
Week 9: Ilona Maher	<input checked="" type="checkbox"/> Predicted: Chandler Kinney
Week 9: Stephen Nedoroscik	<input checked="" type="checkbox"/> Predicted: Chandler Kinney
Week 9: Chandler Kinney	<input checked="" type="checkbox"/> Correct

Overall Consistency Accuracy: 41.7%

==== Certainty Analysis (Feasible Range Probe) ===

Average Certainty Score: 0.7417

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
2	Tori Spelling	1.0
3	Ilona Maher	1.0
3	Jenn Tran	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
7	Joey Graziadei	0.0
7	Stephen Nedoroscik	0.0
7	Chandler Kinney	0.0

Full certainty report for Season 33 saved to 'season_33_certainty_analysis.csv'

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ANALYZING SEASON 34 (34/34)

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FINAL MODEL - SEASON 34

Using 'RANK' method for season 34

Contestants: 14, Weeks: 11

Eliminations: 13

Phase 1: Global search...

Phase 2: Local refinement...

Optimization completed.

Success: True

Final objective: 9007903666913196.000000

[Original Optimization Results]

Satisfaction rate: 46.2%

Average violation: 2.697692

Violation by elimination week:

Week 2: 5.010000

Week 2: 5.010000

Week 3: 0.000000

Week 4: 0.000000

Week 6: 0.000000

Week 7: 0.000000

Week 8: 0.000000

Week 9: 0.000000

Week 10: 5.010000

Week 11: 5.010000

Week 11: 5.010000

Week 11: 5.010000

Week 11: 5.010000

Top 5 estimated fan support (Week 1):

1. Elaine Hendrix : 10.8%
2. Robert Irwin : 10.7%
3. Dylan Efron : 9.6%
4. Andy Richter : 9.4%
5. Danielle Fishel : 7.9%

==== Consistency Analysis Detail ===

Week 2: Corey Feldman	<input checked="" type="checkbox"/> Predicted: Baron Davis
Week 2: Baron Davis	<input checked="" type="checkbox"/> Correct
Week 3: Lauren Jauregui	<input checked="" type="checkbox"/> Correct
Week 4: Hilaria Baldwin	<input checked="" type="checkbox"/> Correct
Week 6: Scott Hoying	<input checked="" type="checkbox"/> Correct
Week 7: Jen Affleck	<input checked="" type="checkbox"/> Correct
Week 8: Danielle Fishel	<input checked="" type="checkbox"/> Correct
Week 9: Andy Richter	<input checked="" type="checkbox"/> Correct
Week 10: Whitney Leavitt	<input checked="" type="checkbox"/> Correct
Week 11: Elaine Hendrix	<input checked="" type="checkbox"/> Predicted: Alix Earle
Week 11: Dylan Efron	<input checked="" type="checkbox"/> Predicted: Alix Earle
Week 11: Jordan Chiles	<input checked="" type="checkbox"/> Predicted: Alix Earle
Week 11: Alix Earle	<input checked="" type="checkbox"/> Correct

Overall Consistency Accuracy: 69.2%

==== Certainty Analysis (Feasible Range Probe) ====

Average Certainty Score: 0.4702

[Certainty Analysis Summary]

Top 3 Most Certain Estimates (Highest Certainty Score):

Week	Contestant	Certainty
2	Corey Feldman	1.0
2	Danielle Fishel	1.0
11	Jordan Chiles	1.0

Top 3 Least Certain Estimates (Lowest Certainty Score):

Week	Contestant	Certainty
7	Dylan Efron	0.042654
6	Elaine Hendrix	0.043029
4	Elaine Hendrix	0.043263

Full certainty report for Season 34 saved to 'season_34_certainty_analysis.csv'

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FINAL SUMMARY - ALL 34 SEASONS

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Season Satisfaction Avg Viol Max Viol

1	60.0	% 2.004000	5.010000
2	77.8	% 1.113333	5.010000
3	80.0	% 0.200200	1.001002

4	80.0	% 0.200200	1.001001
5	36.4	% 0.348099	1.004079
6	63.6	% 0.364000	1.001001
7	50.0	% 0.500500	1.004464
8	66.7	% 0.333667	1.011079
9	13.3	% 0.808404	1.024737
10	80.0	% 0.200200	1.001002
11	72.7	% 0.204551	1.002155
12	80.0	% 0.200200	1.001004
13	81.8	% 0.182000	1.001001
14	63.6	% 0.364000	1.001114
15	33.3	% 0.667341	1.111691
16	54.5	% 0.455000	1.001910
17	63.6	% 0.321454	1.001000
18	0.0	% 0.857601	1.069687
19	33.3	% 0.462919	1.013629
20	18.2	% 0.586392	1.033874
21	33.3	% 0.656884	1.014389
22	36.4	% 0.562494	1.024781
23	41.7	% 0.525080	1.001012
24	36.4	% 0.513059	1.003145
25	25.0	% 0.678759	1.002819
26	0.0	% 1.001000	1.001007
27	0.0	% 0.743736	1.002857
28	54.5	% 8.277273	27.010000
29	57.1	% 3.718571	16.010000
30	28.6	% 3.578571	5.010000
31	46.7	% 3.405333	16.010000
32	46.2	% 7.774615	27.010000
33	33.3	% 3.340000	5.010000
34	46.2	% 2.697692	5.010000
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AVERAGE	46.9	% 1.407269	4.012513
MEDIAN	46.4	%	

Results saved to fan_vote_results.csv

进程已结束，退出代码为 0