NCL Spring 2021 Individual Game Scouting Report

Dear Ean Dudley,

Congratulations on a great NCL 2021 Spring Individual Game!

National Cyber League (NCL)

The NCL was founded in May 2011 to provide an ongoing virtual training ground for collegiate students to develop, practice, and validate their cybersecurity skills. The NCL is a next-generation learning and gaming environment using high-fidelity and scenario-based challenges from Cyber Skyline. The challenges are designed around industry recognized and performance-based exam objectives to further develop student skills. If you have any questions regarding the information in this report please inquire at info@nationalcyberleague.org.

NCL 2021 Spring Season

The NCL 2021 Spring Season was designed to develop and validate player knowledge and skills in preparation for further learning, career readiness, industry certifications, and other cybersecurity competitions. The games were designed around performance-based exam objectives of CompTIA certifications and the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework published by the National Institute of Standards and Technology (NIST).

The NCL 2021 Spring Season began with the Preseason round to group players into one of three competition brackets based on skill level: Gold (top 15% of all players nationally - 629 players), Silver (the next 35% of all players nationally - 1456 players) or Bronze (the next 50% of all players nationally - 2094 players). Players who did not participate in the Preseason were not bracketed or ranked. This made the Individual Game more engaging by grouping players with similar knowledge and skill levels together. At the beginning of the NCL 2021 Spring Season, 6380 students/players and 425 faculty/coaches from more than 520 two- and four-year schools across all 50 U.S. states registered to play.

The Individual Game Capture the Flag (CTF) event took place from March 26 through March 28. The Team Game CTF event took place from April 9 through April 11. The games were conducted in real-time for students across the country.

The NCL 2021 Spring Season was powered by Cyber Skyline's cloud-based skills evaluation platform. Cyber Skyline hosted the scenario-driven cybersecurity challenges for all players to compete and track their progress in real-time.

To validate this report, please access: cyberskyline.com/report/PQ2U153AENMX

Based on the the performance detailed in this Scouting Report, Ean Dudley has earned **8 hours** of Continuing Education Units (CEUs) as approved by CompTIA. You can learn more about the NCL - CompTIA alignment via nationalcyberleague.org/comptia

Thank you for your participation in the NCL 2021 Spring Individual Game! We hope you will continue to develop your knowledge and skills and make meaningful contributions as part of the Information Security workforce!

Dr. Dan Manson
NCL Commissioner

NCL Scouting Report

What follows is a customized NCL Scouting Report of your performance in the NCL 2021 Spring Individual Game. We hope you find it to be valuable in both confirming your skills and identifying areas for improvement. In addition, the NCL Scouting Report can be used as part of any job application, as it provides an external validation of skills as demonstrated in competitive gameplay based on industry-recognized certification exam and framework objectives.

The following definitions apply to your performance across a range of cybersecurity scenarios

- **National Rank:** overall place with respect to all players, across all Brackets
- **Bracket Rank:** overall place within the Bracket
- **Performance Score:** total points earned; the higher the score, the higher the ranking
- **Accuracy:** percentage of flag submissions that were correct (total flag captures divided by total flag attempts).
- **Completion:** percentage of possible flags submitted (total flag captures divided by total possible flags).

The following are the categories of cybersecurity scenarios that you were evaluated against:

1. Cryptography
   Identify techniques used to encrypt or obfuscate messages and leverage tools to extract the plaintext.
2. Enumeration & Exploitation
   Identify actionable exploits and vulnerabilities and use them to bypass the security measures in code and compiled binaries.
3. Forensics
   Utilize the proper tools and techniques to analyze, process, recover, and/or investigate digital evidence in a computer-related incident.
4. Log Analysis
   Utilize the proper tools and techniques to establish a baseline for normal operation and identify malicious activities using log files from various services.
5. Network Traffic Analysis
   Identify malicious and benign network traffic to demonstrate an understanding of potential security breaches.
6. Open Source Intelligence
   Utilize publicly available information such as search engines, public repositories, social media, and more to gain in-depth knowledge on a topic or target.
7. Password Cracking
   Identify types of password hashes and apply various techniques to efficiently determine plaintext passwords.
8. Scanning & Reconnaissance
   Identify and use the proper tools to gain intelligence about a target including its services and potential vulnerabilities.
9. Web Application Exploitation
   Identify actionable exploits and vulnerabilities and use them to bypass the security measures in online services.

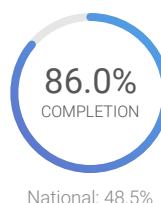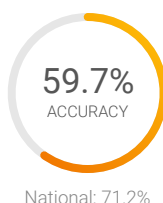## NCL Spring 2021 Preseason

468 TH PLACE
OUT OF **5794**
NATIONAL RANK

92nd
National Percentile

1210 POINTS
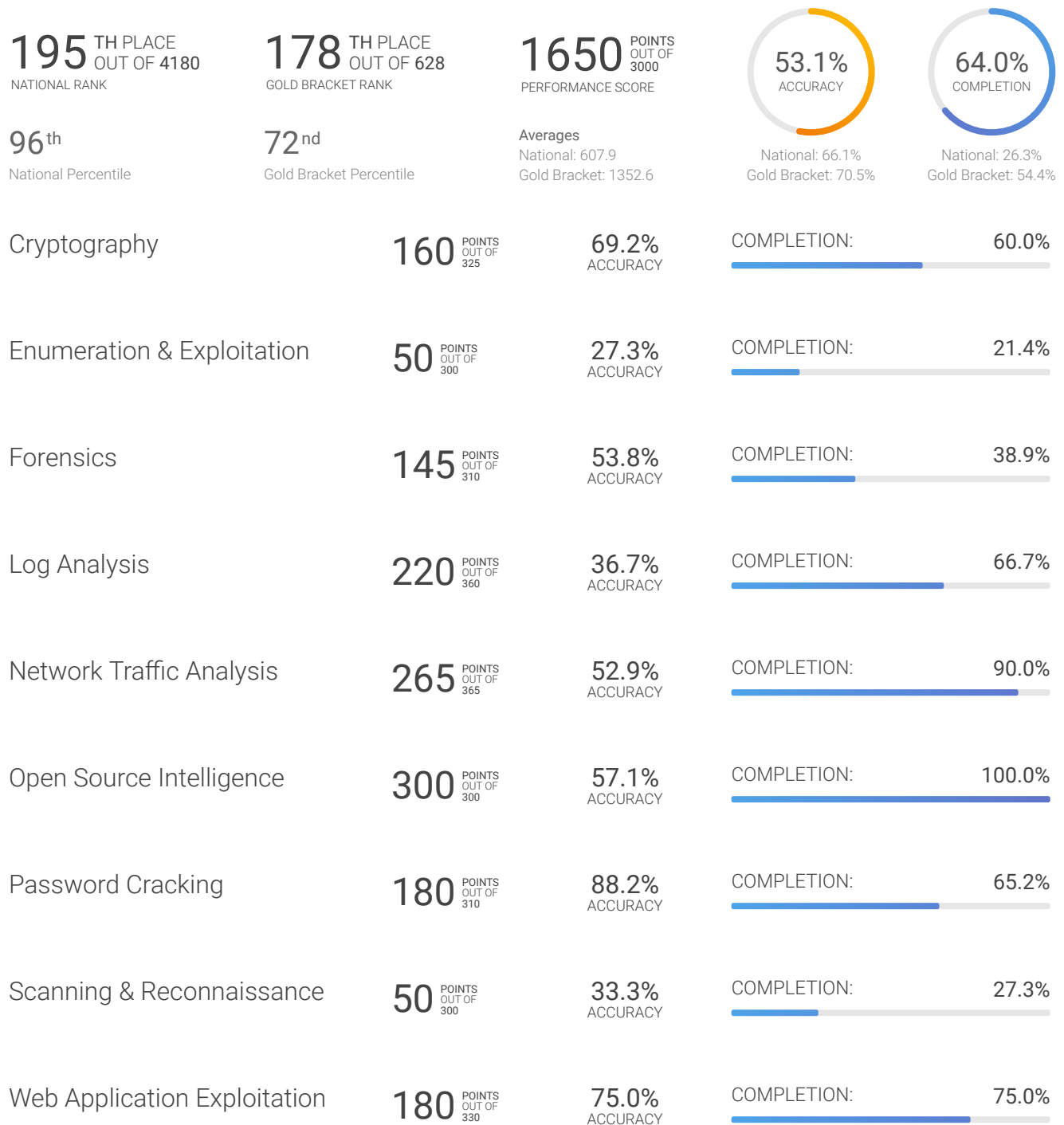OUT OF
1785
PERFORMANCE SCORE

Averages
National: 615.1

59.7%
ACCURACY

National: 71.2%

86.0%
COMPLETION

National: 48.5%

Based on Preseason performance, **Ean Dudley** was placed into the **Gold Bracket** for the Individual Game.

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NCL Spring 2021 Individual Game

The NCL Individual Game is designed for student players nationwide to compete in realtime in the categories listed below. The Individual Game evaluates the technical cybersecurity skills of the individual, without the assistance of others.

195 TH PLACE OUT OF 4180
NATIONAL RANK

96th
National Percentile

178 TH PLACE OUT OF 628
GOLD BRACKET RANK

72nd
Gold Bracket Percentile

1650 POINTS OUT OF 3000
PERFORMANCE SCORE

Averages
National: 607.9
Gold Bracket: 1352.6

53.1% ACCURACY

National: 66.1%
Gold Bracket: 70.5%

64.0% COMPLETION

National: 26.3%
Gold Bracket: 54.4%

Category	Points	Accuracy	Completion
Cryptography	160 POINTS OUT OF 325	69.2% ACCURACY	60.0%
Enumeration & Exploitation	50 POINTS OUT OF 300	27.3% ACCURACY	21.4%
Forensics	145 POINTS OUT OF 310	53.8% ACCURACY	38.9%
Log Analysis	220 POINTS OUT OF 360	36.7% ACCURACY	66.7%
Network Traffic Analysis	265 POINTS OUT OF 365	52.9% ACCURACY	90.0%
Open Source Intelligence	300 POINTS OUT OF 300	57.1% ACCURACY	100.0%
Password Cracking	180 POINTS OUT OF 310	88.2% ACCURACY	65.2%
Scanning & Reconnaissance	50 POINTS OUT OF 300	33.3% ACCURACY	27.3%
Web Application Exploitation	180 POINTS OUT OF 330	75.0% ACCURACY	75.0%

Note: Survey module (100 points) was excluded from this report.

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The National Cyber League
Where Cybersecurity is a Passion

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Cryptography Module

Identify techniques used to encrypt or obfuscate messages and leverage tools to extract the plaintext.
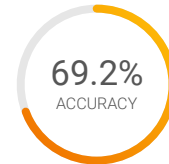
900 TH PLACE OUT OF **4180**
NATIONAL RANK

79th
National Percentile

428 TH PLACE OUT OF **628**
GOLD BRACKET RANK

32nd
Gold Bracket Percentile

160 POINTS OUT OF **325**
PERFORMANCE SCORE

Averages
National: 122.0
Gold Bracket: 168.6

69.2%
ACCURACY

National: 80.8%
Gold Bracket: 87.1%

60.0%
COMPLETION

National: 48.1%
Gold Bracket: 61.9%

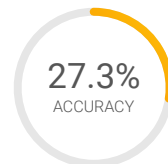|	Points	Accuracy	Completion
Decoding 1 (Easy)	30 POINTS OUT OF 30	75.0% ACCURACY	COMPLETION: 100.0%
Decoding 2 (Easy)	20 POINTS OUT OF 20	100.0% ACCURACY	COMPLETION: 100.0%
Decoding 3 (Easy)	20 POINTS OUT OF 20	100.0% ACCURACY	COMPLETION: 100.0%
Decoding 4 (Medium)	20 POINTS OUT OF 20	100.0% ACCURACY	COMPLETION: 100.0%
Decoding 5 (Hard)	30 POINTS OUT OF 30	100.0% ACCURACY	COMPLETION: 100.0%
Puzzle (Easy)	40 POINTS OUT OF 40	100.0% ACCURACY	COMPLETION: 100.0%
Hidden (Medium)	0 POINTS OUT OF 50	0.0% ACCURACY	COMPLETION: 0.0%
Bubba (Medium)	0 POINTS OUT OF 50	0.0% ACCURACY	COMPLETION: 0.0%
Unknown (Hard)	0 POINTS OUT OF 65	0.0% ACCURACY	COMPLETION: 0.0%

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Enumeration & Exploitation Module

Identify actionable exploits and vulnerabilities and use them to bypass the security measures in code and compiled binaries.

558 TH PLACE OUT OF 4180
NATIONAL RANK

87th
National Percentile

368 TH PLACE OUT OF 628
GOLD BRACKET RANK
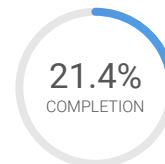
42nd
Gold Bracket Percentile

50 POINTS OUT OF 300
PERFORMANCE SCORE

Averages
National: 41.6
Gold Bracket: 96.8

27.3% ACCURACY

National: 42.9%
Gold Bracket: 68.4%

21.4% COMPLETION

National: 18.2%
Gold Bracket: 39.6%

Open Up (Easy)	10 POINTS OUT OF 100	16.7% ACCURACY	COMPLETION:	16.7%
Popping Boxes (Medium)	0 POINTS OUT OF 100	0.0% ACCURACY	COMPLETION:	0.0%
Trash Compactor (Hard)	40 POINTS OUT OF 100	100.0% ACCURACY	COMPLETION:	50.0%

Forensics Module

Utilize the proper tools and techniques to analyze, process, recover, and/or investigate digital evidence in a computer-related incident.

267 TH PLACE OUT OF 4180
NATIONAL RANK

94th
National Percentile

218 TH PLACE OUT OF 628
GOLD BRACKET RANK
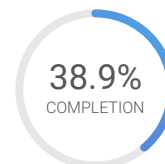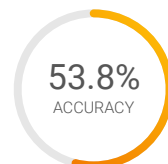
66th
Gold Bracket Percentile

145 POINTS OUT OF 310
PERFORMANCE SCORE

Averages
National: 72.6
Gold Bracket: 135.8

53.8% ACCURACY

National: 39.5%
Gold Bracket: 49.4%

38.9% COMPLETION

National: 22.7%
Gold Bracket: 40.3%

Excellent Tracking (Easy)	45 POINTS OUT OF 75	60.0% ACCURACY	COMPLETION:	75.0%
Image File (Medium)	100 POINTS OUT OF 100	100.0% ACCURACY	COMPLETION:	100.0%
Sessions (Hard)	0 POINTS OUT OF 135	0.0% ACCURACY	COMPLETION:	0.0%

Log Analysis Module

Utilize the proper tools and techniques to establish a baseline for normal operation and identify malicious activities using log files from various services.

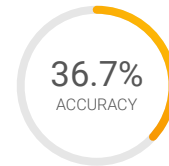**338** TH PLACE OUT OF **4180**
NATIONAL RANK

92nd
National Percentile
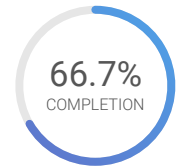
276 TH PLACE OUT OF **628**
GOLD BRACKET RANK

57th
Gold Bracket Percentile

220 POINTS OUT OF **360**
PERFORMANCE SCORE

Averages
National: 93.6
Gold Bracket: 205.6

36.7% ACCURACY
National: 57.5%
Gold Bracket: 59.6%

66.7% COMPLETION
National: 29.3%
Gold Bracket: 60.5%

	Points	Accuracy	Completion
AWS Route 53 (Easy)	55 OUT OF 100	28.6%	57.1%
Pacman (Medium)	80 OUT OF 110	58.3%	77.8%
Mobile (Hard)	85 OUT OF 150	30.4%	63.6%

Network Traffic Analysis Module

Identify malicious and benign network traffic to demonstrate an understanding of potential security breaches.

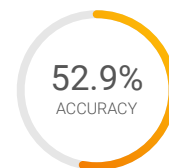**169** TH PLACE OUT OF **4180**
NATIONAL RANK

96th
National Percentile
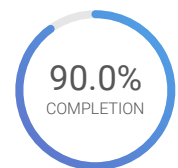
130 TH PLACE OUT OF **628**
GOLD BRACKET RANK

80th
Gold Bracket Percentile

265 POINTS OUT OF **365**
PERFORMANCE SCORE

Averages
National: 95.0
Gold Bracket: 179.1

52.9% ACCURACY
National: 57.9%
Gold Bracket: 70.0%

90.0% COMPLETION
National: 36.0%
Gold Bracket: 63.1%

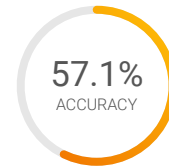|	Points	Accuracy	Completion
Checksum (Easy)	55 OUT OF 55	100.0%	100.0%
Cracking (Medium)	70 OUT OF 70	71.4%	100.0%
WPAD (Medium)	115 OUT OF 115	53.8%	100.0%
Encrypted (Hard)	25 OUT OF 125	11.1%	33.3%

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Open Source Intelligence Module

Utilize publicly available information such as search engines, public repositories, social media, and more to gain in-depth knowledge on a topic or target.

111 TH PLACE OUT OF **4180**
NATIONAL RANK

93 RD PLACE OUT OF **628**
GOLD BRACKET RANK

300 POINTS OUT OF 300
PERFORMANCE SCORE

57.1% ACCURACY

100.0% COMPLETION

98th
National Percentile

86th
Gold Bracket Percentile

Averages
National: 115.4
Gold Bracket: 184.7

National: 73.4%
Gold Bracket: 73.6%

National: 53.7%
Gold Bracket: 73.0%

	Points	Accuracy	Completion
Rules of Conduct (Easy)	15 POINTS OUT OF 15	100.0% ACCURACY	COMPLETION: 100.0%
Breached Passwords (Easy)	50 POINTS OUT OF 50	83.3% ACCURACY	COMPLETION: 100.0%
Database Lookup (Medium)	65 POINTS OUT OF 65	36.8% ACCURACY	COMPLETION: 100.0%
Covered QR (Medium)	70 POINTS OUT OF 70	80.0% ACCURACY	COMPLETION: 100.0%
Fake Profile (Hard)	100 POINTS OUT OF 100	50.0% ACCURACY	COMPLETION: 100.0%

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Password Cracking Module

Identify types of password hashes and apply various techniques to efficiently determine plaintext passwords.

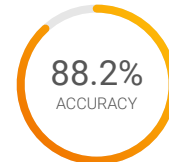**745** TH PLACE OUT OF **4180**
NATIONAL RANK

429 TH PLACE OUT OF **628**
GOLD BRACKET RANK

180 POINTS OUT OF 310
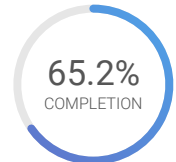PERFORMANCE SCORE

88.2% ACCURACY

65.2% COMPLETION

83rd
National Percentile

32nd
Gold Bracket Percentile

Averages
National: 110.5
Gold Bracket: 205.6

National: 89.0%
Gold Bracket: 93.6%

National: 45.3%
Gold Bracket: 75.7%

Module	Points	Accuracy	Completion
Hashing (Easy)	15 POINTS OUT OF 15	100.0% ACCURACY	100.0%
Cracking 1 (Easy)	30 POINTS OUT OF 30	100.0% ACCURACY	100.0%
Cracking 2 (Easy)	45 POINTS OUT OF 45	100.0% ACCURACY	100.0%
Cracking 3 (Medium)	45 POINTS OUT OF 45	75.0% ACCURACY	100.0%
Cracking 4 (Hard)	45 POINTS OUT OF 45	100.0% ACCURACY	100.0%
Cracking 5 (Hard)	0 POINTS OUT OF 100	0.0% ACCURACY	0.0%
Zip (Medium)	0 POINTS OUT OF 30	0.0% ACCURACY	0.0%

Scanning & Reconnaissance Module

Identify and use the proper tools to gain intelligence about a target including its services and potential vulnerabilities.

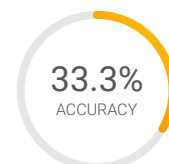**511** TH PLACE OUT OF **4180**
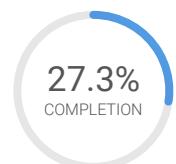NATIONAL RANK

337 TH PLACE OUT OF **628**
GOLD BRACKET RANK

50 POINTS OUT OF 300
PERFORMANCE SCORE

33.3% ACCURACY

27.3% COMPLETION

88th
National Percentile

47th
Gold Bracket Percentile

Averages
National: 50.6
Gold Bracket: 77.8

National: 66.8%
Gold Bracket: 76.2%

National: 24.4%
Gold Bracket: 35.7%

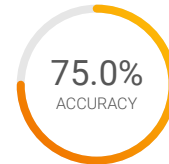| Module	Points	Accuracy	Completion
Hidden Treasure (Easy)	50 POINTS OUT OF 100	100.0% ACCURACY	60.0%
TeamSpeak (Medium)	0 POINTS OUT OF 100	0.0% ACCURACY	0.0%
Router (Hard)	0 POINTS OUT OF 100	0.0% ACCURACY	0.0%

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Web Application Exploitation Module

Identify actionable exploits and vulnerabilities and use them to bypass the security measures in online services.

112 TH PLACE OUT OF **4180**
NATIONAL RANK

96 TH PLACE OUT OF **628**
GOLD BRACKET RANK

180 POINTS OUT OF 330
PERFORMANCE SCORE

75.0%
ACCURACY

75.0%
COMPLETION

98th
National Percentile

85th
Gold Bracket Percentile

Averages
National: 54.2
Gold Bracket: 102.8

National: 60.3%
Gold Bracket: 73.7%

National: 26.6%
Gold Bracket: 43.5%

Doge Community (Easy)	**100** POINTS OUT OF 100	**100.0%** ACCURACY	COMPLETION:	100.0%
Infosec Blog (Medium)	**50** POINTS OUT OF 110	**80.0%** ACCURACY	COMPLETION:	80.0%
Hacker Login (Hard)	**30** POINTS OUT OF 120	**50.0%** ACCURACY	COMPLETION:	50.0%

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