



UNbreakable Romania is the most complex education program for high school and university students in the country.

Through its activities, UNbreakable provides an x-ray and visualisation of the level of cybersecurity skills nationally.

UNbreakable's mission is to provide young cybersecurity enthusiasts with the most varied resources, both theoretical and practical, so useful for developing the skills needed to become good cybersecurity specialists. In addition to an intensive learning environment, the initiative also provides a competitive, testing virtual space that encourages collaboration and knowledge sharing.

This way, UNbreakable plays an important role in bridging the cybersecurity workforce gap both locally and internationally.

HOW DOES UNBREAKABLE ROMANIA WORK?

BOOTCAMP (ONLINE)

Participants receive access to theoretical and practical resources to get familiar with the competition format and methodology, and also with basic cybersecurity concepts. They can also get in touch with mentors (industry experts and community alumni), participate in webinars and solve challenges in their dedicated space on the CyberEDU educational platform.

INDIVIDUAL COMPETITION (ONLINE)

Participants will compete for 48 hours. The main objective is to solve as many cybersecurity challenges as possible and send the maximum number of "flags" to reach the top of the leaderboard. At this stage, participants evaluate their technical skills and performance on an individual level to see what areas in their knowledge need improvement.

TEAM COMPETITION (ONLINE)

In cybersecurity, soft skills - such as communication and teamwork - are just as important as technical skills. This phase gives participants the chance to form teams of up to 3 members with complementary knowledge and later solve as many challenges as possible from different areas of cyber security in the timespan of 48 hours.

NEW! THE UNR FINAL - TEAM COMPETITION (ON SITE)

In order to offer participants an authentic competitive experience and for them to have the opportunity to meet and interact directly with young people who share the same passion for cybersecurity, the 2024 edition of UNbreakable Romania has also introduced a FINAL stage in the form of an on site team competition. Only the top 15 teams (from both HIGH SCHOOL + UNIVERSITY categories) from the online team competition qualify for the UNbreakable Romania final.

WHY UNBREAKABLE ROMANIA?

There is a real need for more and more professionals to train in the field of cybersecurity, given the workforce shortage and the evolution in the number of cyber attacks. We are happy to see that UNbreakable Romania is attracting increasingly talented young people every year.

CRISTIAN PAȚACHIA-SULTĂNOIU Development & Innovation Manager, Orange Romania

Events like UNbreakable represent a major boost to the careers of future cybersecurity specialists. It's an opportunity for them to develop capabilities specific to the cyber area.

CEZAR GLĂVAN

Cyber Security Specialist, Cyberint National Centre

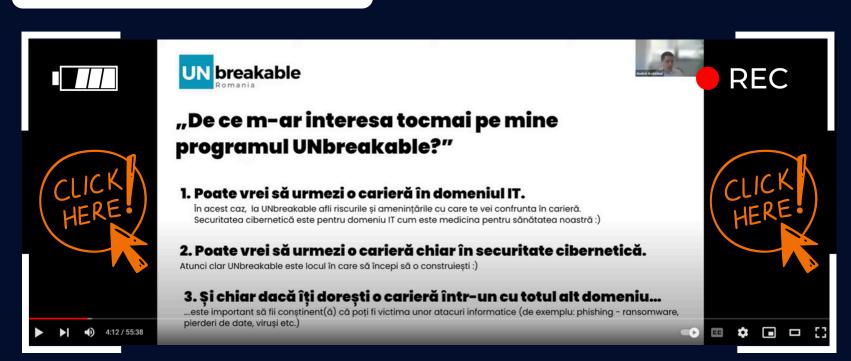
This competition has proven its viability over time, growing in both quantity and quality. The skills that are tested in this competition [...] allow participants to face the latest challenges in the digital area.

CORNEL ARGINT Senior Cybersecurity Manager - General Strategy, National Directorate for Cybersecurity



2024 BOOTGAMP

KICK OFF BOOTCAMP





1,400 registered participants150 challenges20 mentors17 webinars

WEBINAR TOPICS

- Live Demo (downloader-v1, nondiff-backdoor, schematics) (link)
- Introduction to CTFs: an overview into Forensics, Pwn and Reverse Engineering (link)
- Understanding Computer Science from the electron to your exploit (link)
- Criptography Fundamental concepts (link)
- Cybersecurity in the networks of the future (link)
- Breaking PHP challenges at UNbreakable (link)
- Live Demo (dacian, alien-console, pyfuscation, dizzy, crossed-pil) (link)
- Reducing the image size and attack surface in containers (link)
- Resilience in the age of disinformation and cyber bullying. Fundamental concepts about hybrid warfare (link)

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- Live Demo (ninjas are cool, dumb-discord, file-crawler) (link)
- Career Talk Developing a career in cybersecurity (link)
- Introduction to web security for CTFs (link)
- Hack the Box Live Demo (link)
- Introduction to Elasticsearch (link)
- Challenges in smart home security (link)
- Techniques and tools for the protection of sensitive data (link)
- The 'Siguranța Online' project



INDIVIDUAL GOMPETITION

192 high schools

31 universities

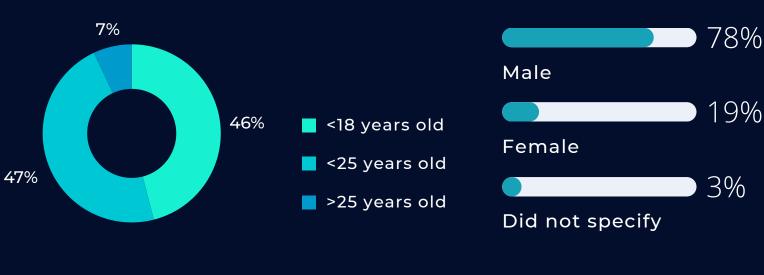
41 counties

20 challenges



PARTICIPANTS' DISTRIBUTION

TOTAL PARTICIPANTS: 839





RESULTS

COUNTIES - TOP 5

4709 points

București

4209 points

Clui Botosani Vâlcea

3964 points

Timiș

3414 points Galați

3374 points Sălaj

UNIVERSITIES - TOP 5

4209 points

Universitatea Tehnică din Cluj-Napoca

3744 points

Academia Tehnică Militară din București

3266 points

Universitatea Tehnică Gheorge Asachi Iași

3251 points

Universitatea Babeș - Bolyai Cluj-Napoca

2274 points

Universitatea Transilvania din Brașov

HIGH SCHOOLS - TOP 5

4709 points

Colegiul Național de Informatică Tudor Vianu

4209 points

Colegiul Național Mihai Viteazul

3359 points

Complexul Educațional Laude-Reut

2396 points

Colegiul Național "Constantin Carabella" Târgoviște

2020 points Liceul Teoretic "Callatis" Mangalia



2024 INDIVIDUAL COMPANION - FUN FACTS -

1

All challenges from the individual competition were solved by the player mcsky, a high school student at Colegiul Național de Informatică "Tudor Vianu" in București.



2



mcsky was also the fastest player in the individual competition, ranking first with a total of 4709 points.

3

Of the 839 young people registered for the individual competition, 83% are not yet employed.



4



Of the 839 young people who entered the individual competition, 78% want to receive internship offers.

5

Of the 839 young people who entered the individual competition, 76% competed at UNbreakable for the first time.



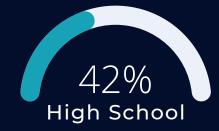


2024 TEAM COMPETITION

TEAM DISTRIBUTION

TOTAL TEAMS: 117

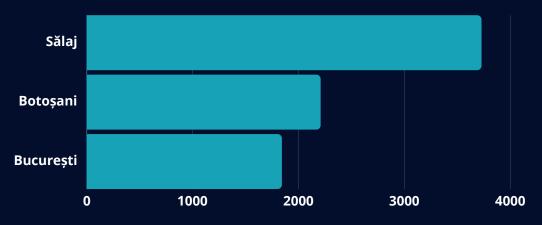






RESULTS

TOP COUNTIES BY POINTS AVERAGE





TOP COUNTIES BY NUMBER OF TEAMS





12 TEAMS Universitatea Politehnica București

8 TEAMS Academia Forțelor Terestre Nicolae Bălcescu din Sibiu

6 TEAMS Academia Tehnică Militară din București

6 TEAMS Colegiul Național Mihai Viteazul **5 TEAMS** Universitatea din București

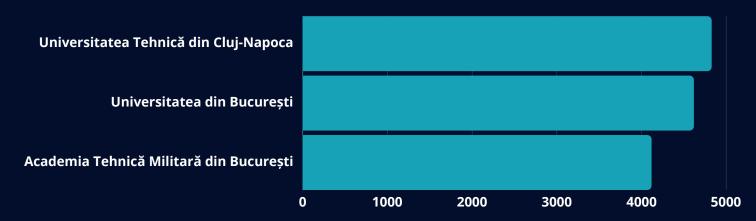
4 TEAMS Universitatea de Vest din Timisoara

4 TEAMS Colegiul Național Militar "Dimitrie Cantemir", Breaza

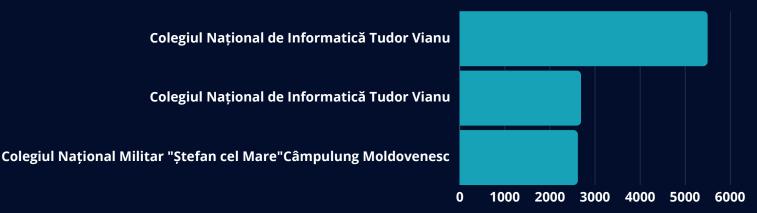
3 TEAMS Colegiul Național de Informatică Tudor Vianu

3 TEAMS Colegiul Național "Emanuil Gojdu", Oradea

TOP 3 UNIVERSITY TEAMS WITH THE HIGHEST SCORE



TOP 3 HIGH SCHOOL TEAMS WITH THE HIGHEST SCORE





2024 TEAM COMPETITION - FUN FACTS -

1

The 2024 edition of UNbreakable Romania saw the highest number of teams registering for the online team competition - 117, a 37% increase from 2023.



2



At the end of the team competition, there were a total of 7465 unsuccessful attempts, 7 times more compared to 2023.

3

At the end of the team competition, there was a total of 1262 correct answers, almost 3 times more compared to 2023.



4



MiniMcStein was the fastest team and also the team that solved all the challenges in the online team competition.

5

Of the 117 teams that registered, 90 teams solved at least one of the challenges proposed for the competition, compared to 55 teams in 2023.







2024 UNBREAKABLE - THE FINAL

TEAM DISTRIBURION

14 TEAMS CONFIRMED THEIR PARTICIPATION @ #UNR2024 FINAL TOTAL PARTICIPANTS: 40

HIGH SCHOOL

MiniMcStein - București



Criptanii - Constanța



MMR - București

nOqtr - Prahova

CNMMSM 2 - Suceava

wild-lotus - Argeș

UNIVERSITY



Solar Titans - Cluj



.hidden - Bucuresti



Military Powerpuff - București

Team name - București

Fetitele Powerpuff - Timiș

Team - Sălaj

Asus 11 - București

IJP - București













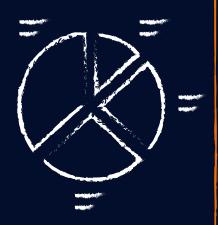




2024 UNBREAKABLE - THE FINAL - FUN FACTS -

1

Participants in the 2024 final competed in other editions of the program in the past. The maximum number of entries was 4 out of 7 possible editions.



2



At the UNbreakable Romania 2024 final, all participating teams scored points in the proposed challenges.

3

Out of a total of 14 proposed challenges, 4 were not solved at all by the participants.



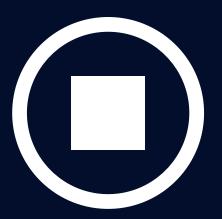
4



The teams solved challenges from various difficulty categories as follows: medium - 55 times, easy - 4 times, and hard - 8 times.

5

At the end of the competition there were 19906 wrong attempts and 146 correct answers.





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