



# *Nouvelle Liberation*

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Department of Computer Applications  
Chitkara University Institute of Engineering & Technology  
Chitkara University, Punjab

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## INSIDE THE ISSUE



### CONTENTS

### PAGE No.

• CSI Student Regional Convention-Region I.....	1-2
• Republic Day Celebrations-2019.....	3
• Expert talk on AI and ML.....	4
• Excuberanza - 2K19.....	5
• International Day of Happiness.....	6
• Expert talk on Blockchain.....	7
• Women's Day Commemoration.....	8
• STEAM School.....	9-10
• Buddy Program - Anti Drug Campaign.....	11
• Faculty Achievements.....	12
• Research & Publications.....	13
• Student Achievements.....	14
• Department Rankings.....	15
• Farewell 2K19.....	16
• Paper Club.....	17
• Placements Record 2K19.....	18-20



# CSI Student Regional Convention-Region 1

Computer Society of India (CSI) Student Chapter under the aegis of Department of Computer Applications, Chitkara University, Punjab, organized a 2-day CSI Student Regional Convention (Region-I) on February 15-16, 2019. The convention was aimed at bringing together students from various states of northern India and to provide a platform to broaden their horizons. The inauguration ceremony was graced by eminent personalities and office bearers of the Computer Society of India. Prof. (Dr.) A.K. Nayak (Vice President cum President Elect, CSI) was the chief guest for the occasion. Prof. P. Prabhakar (Chairman, CSI Chandigarh Chapter), Mr. Subhash Chander Jain (Immediate Past Chairman, CSI Chandigarh Chapter) and Dr. Sushil Kaura (Executive Member, CSI Chandigarh Chapter) also attended the session. Dr. S.C. Sharma (Registrar, Chitkara University), Dr. I.S. Sandhu (Dean Examination, Chitkara University), Dr. Jaiteg Singh (Prof. & Dean, Department of Computer Applications) and all faculty members of Department of Computer Applications were present during the event.



*Event Date: February 15-16, 2019*



The ceremony started with traditional lamp lighting, which symbolises peace and success. Prof. (Dr.) A.K. Nayak addressed the students with an enthusiastic speech. He emphasized the importance of artificial intelligence and machine learning in today's era. He also advised the students to be knowledge seekers and work for welfare of the society. The keynote speaker of the day, Prof. P. Prabhakar, talked about the futuristic approach to be adopted by learners so as to enable changeover to the next generation of inventions. The dignitaries and industry partners were felicitated during the session.





Various activities scheduled for day-one included a workshop on IoT and a workshop on Python. Two expert lectures: "Idea Generation and New Innovations" by Dr. S.N. Panda (Director-Research, CURIN) and "Intellectual Property Rights" by Dr. Sachin Ahuja (Director-Research, CURIN) were very well received by the audience. A competition on smart devices was also held at the campus wherein student teams participated and competed with each other. Prof. (Dr.) A.K. Nayak visited different venues of the event and motivated the participants. He applauded the efforts of CSI Student Chapter at Chitkara University for providing numerous opportunities to the students to participate and to upgrade their skills by means of various technical workshops, coding events, and expert talks. Day-two of the CSI Student Regional Convention witnessed active participation in events such as Micro-Conference and Code Crackers. The micro conference attracted participation by large number of student teams that shared their ideas by means of poster presentations. The posters were judged on the basis of various quantifiable parameters so as to ensure fair judgment. Code Crackers was another competition which required a desired code to be generated by the contestants in a specific programming language.



Besides these activities, LAN gaming (FIFA and Counter Strike) event was also arranged for the students wherein they competed against each other and in the process, demonstrated their control over the input devices.

The valedictory session to mark the closure of the Student Regional Convention was held during the second half of the day. Dr. P. Prabhakar (Chairman, Chandigarh Chapter) was the chief guest. Other guests included Dr. S.C. Sharma (Registrar, Chitkara University) and Dr. I. S. Sandhu (Dean, Examination). The chief guest awarded the winners of various events. Mr. Jaswinder Singh, Student Branch Coordinator- CSI Student Chapter along with the student volunteers of the CSI Student Chapter were felicitated for successfully organizing the student regional convention. The guests as well as the student participants from other educational institutions, expressed a deep sense of satisfaction over the quality of events organized during these two days. The CSI Student Regional Convention came to a close with a vote of thanks by Dr. Jaiteg Singh, Prof. & Dean, Department of Computer Applications.





# REPUBLIC DAY CELEBRATIONS - 2019



On January 26, 2019, India's Republic Day was celebrated with much fervor at the Chitkara campus. The students of departmental NSS unit and faculty members led by Dr. Jaiteg Singh (Prof. & Dean, Department of Computer Applications) and Matrix-club in-charge, Ms. Vandana (Associate Professor), participated with great enthusiasm in unfurling of the Indian flag by the Hon'ble Vice Chancellor, Dr. Madhu Chitkara. This was followed by a spectacular cultural show that displayed India's vibrant culture and diversity. Mr. Mohan Singh (Group Head Human Resources, Sterling & Wilson) & his wife Ms. Mona Singh were the guests of honour. With much pride and patriotism, the students of Department of Computer Applications showcased their breathtaking performances through group dance and a play on the theme of the three wings of our armed forces.





# Expert Talk on AI and ML

An Expert Talk on Artificial Intelligence and Machine Learning (AIML) was organized by CSI Student Chapter under the aegis of Department of Computer Applications on March 18, 2019. More than 100 students attended the session. Mr. Kapil Khanna (Vice President, Netsmartz, Chandigarh) interacted with the students of the department and talked about Artificial Intelligence, Machine Learning and Deep Learning. He explained Machine Learning through various examples and also discussed the implementation of Machine Learning using R and PyTorch. A short demonstration to implement ML problem using data set provided from the Modified National Institute of Standards and Technology (MNIST) database was also given.



The expert talk concluded with the felicitation of Netsmartz team by Dr. Jaiteg Singh (Prof. & Dean, Department of Computer Applications). The vote of thanks was given by Mr. Preetinder Singh Brar (Program Incharge, Department of Computer Applications). The faculty coordinators from the department were Mr. Jaswinder Singh (Assistant Professor) and Mr. Jaspreet Singh (Assistant Professor).



Matrix Club, under the aegis of Department of Computer Applications, Chitkara University organized its university level annual event: Exuberanza 2k19 on the theme: IDEATE-EXPRESS-REDEFINE-BELIEVE, on January 25, 2019. The event included three competitive categories namely, Power Point Presentations, Technical Poster Making and Mobile Photography. The venue of the event was Pulitzer Hall in the Teresa Block of Chitkara University's beautiful sprawling campus.



The event was judged by Dr. Jaiteg Singh (Professor & Dean), Dr. Amandeep Bhullar (Associate Professor), Dr. Ruchi Mittal (Professor), Ms. Nishu Bali (Associate Professor), and Mr. Jatinder Ashta (Assistant Professor) from Department of Computer Applications. Mr. Vikas Rattan (Associate Professor) and Ms. Vandana (Associate Professor) gave away the prizes and congratulated the winners and also appreciated other participants for the time and efforts put in by them to make the event successful.

EXCUBERANZA

2K19



# International Day of Happiness



In order to strengthen the bond between mentors and mentees, Matrix Club under the aegis of Department of Computer Applications celebrated International Day of Happiness on March 19, 2019 in the  $\beta$ -Zone of Chitkara campus to coincide with the pious cultural festival of Holi. The event comprised of some childhood games such as the Gully Cricket, Pithu Garam, Kho-kho, Gulli Danda, Dog-in-the-Pond, and Tug-of-War. Keeping the tagline "Relive your Childhood" in mind, teams drawn from faculty members and students competed with each other and shared some lighter moments during the day.







**Computer Society of India (CSI) Student Chapter, under the aegis of Department of Computer Applications (Chitkara University, Punjab), organised an expert talk on Blockchain on March 16, 2019. The keynote speaker Dr. Mayank Aggarwal (Associate Professor & HoD at Department of Engineering & Technology, Gurukul Kangri University, Haridwar) spoke on Blockchain and its applications. He also gave some insights into new technological trends such as Big Data, Fog Computing, and Hyperledger in Blockchain. These technologies are emerging as the fastest growing "in-demand" skill set in the IT sector. The talk was appreciated by all the students and faculty present.**





**"A Woman is full circle, within her is the power to create, nurture, and transform" -Diane Mariechild**



International Women's Day is celebrated on 8th March every year. This is a universal day for women around the world that marks the celebration of economic, social, cultural, and political achievements made by women over the years. This year, Department of Computer Applications under the aegis of NSS celebrated International Women's Day wherein all the female faculty members organized and witnessed cultural events and motivational talks on women empowerment and women achievers. This was followed by an outdoor get-together.



## **International Women's Day**







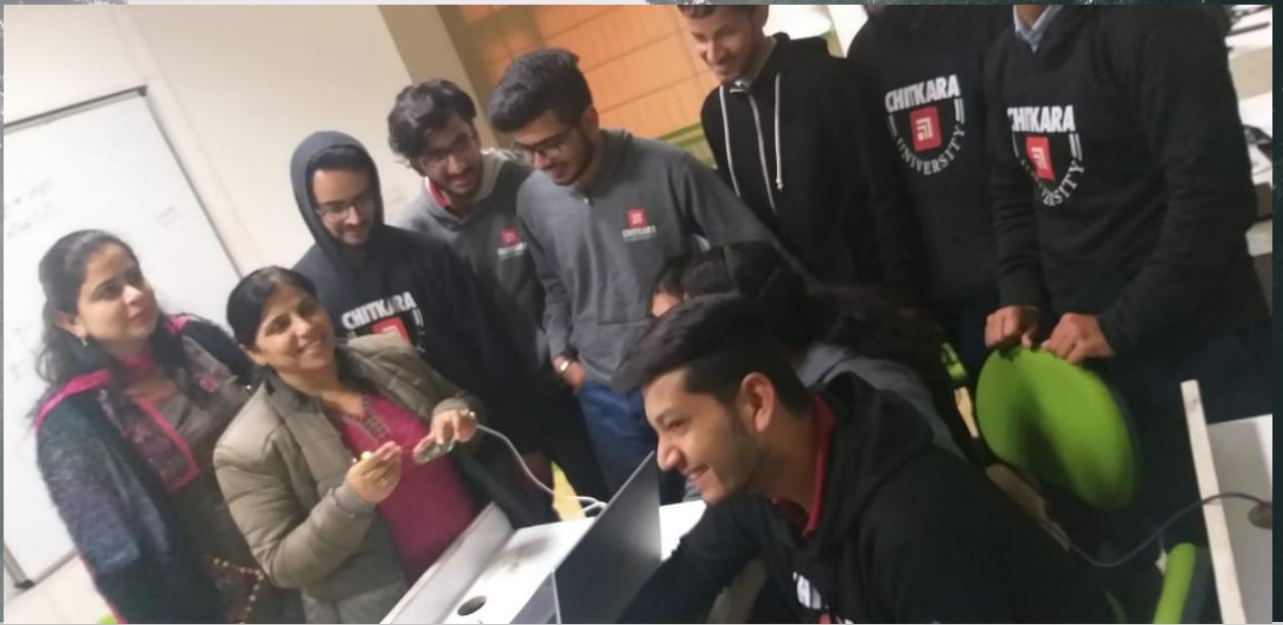
As a part of the STEAM school modules, a workshop on "Experimental Study on Wireless Sensor Network using MATLAB" was organized on February 18-22, 2019 by Department of Computer Applications under the flagship of CURIN. The students learnt the basic concepts of Wireless Sensor Network and also the requirements of MATLAB in WSN and its architecture. Students had hands-on practice on the following:

- Variable handling , array matrix handling, indexing, operators and execution of basic programs in MATLAB environment, using M-Files, conditions and loops in MATLAB, writing user defined functions and mathematics in MATLAB, graphing and plotting under MATLAB.
- Programmatic Comparison of MANET, VANET and WSN with nodes creation under single and multiple network.
- Intruder Detection

The workshop was very well received by the participants with a request to extend it further.







A STEAM School module on "Internet of Things: Today's and Tomorrow's Technology" was conducted by Department of Computer Applications faculty members namely, Ms. Vidhyotma Gandhi and Dr. Amandeep Kaur Bhullar from February 11-15, 2019 under the flagship of CURIN. The program covered the basic introduction about Internet of Things, applications of IoT in real world, how IoT differs from internet. The students also learnt about Raspberry pi microcontroller board and got familiar with the official website site: [www.raspberrypi.org](http://www.raspberrypi.org). Various hands-on tasks learnt by the students are as below:

- Installation of Operating system supporting Raspberry pi and exploring Python programming on Raspberry pi platform.
- Basic concepts of control structures and time package in Python programming.
- Concept of GPIO, boardpins and LED blinking as well as understanding and interfacing of ultrasonic sensor.
- PIR, temperature and humidity sensor basics and interfacing with Raspberry pi, programming concepts and data logging of sensors.
- To put sensors data on internet and how to log that data on their channel.

The module was a success based on the students' feedback received.





# Buddy Program- Anti Drug Campaign

Buddy Programs were organized by Department of Computer Applications under the aegis of Office of Student Affairs to spread awareness on the ill-effects of drug abuse and also to motivate students to denounce this malpractice. This was a Punjab State Government initiative and as per the guidelines issued from the office of the Deputy Commissioner, Patiala, all the mentors were assigned buddy groups with whom one lecture in a week was arranged to perform a unique activity on the theme. Students showed great enthusiasm and initiative by participating in various activities such as poster making, slogan writing, essay writing, power-point presentation and displayed their solidarity in raising voice against the menace of drug abuse.

A week-by-week report of the activities performed is as follows:

- Week 1: BCA 2Z on March 13, 2019 was engaged in slogan writing contest (in Hindi and English); BCA 2Y on March 14, 2019 were involved in poster making
- Week 2: BCA 4Y on March 27, 2019 participated in 250-word essay writing event; BCA 4X on March 28, 2019 appeared for a power point presentation competition.
- Week 3: BCA 2X on April 1, 2019 was engaged in web-designing of an anti-drug abuse portal; MCA 4 on April 4, 2019 made creative collages on the theme.



*Addiction is the only prison where the locks are on the inside.*



## Faculty Achievements

Keeping the tradition of honoring the dedicated efforts of faculty towards achieving excellence in teaching and leadership, Chitkara University organized Teachers Excellence Awards on April 6, 2019. The faculty members at the two campuses (Punjab and Himachal Pradesh) were accorded the Awards of Excellence in various categories by Dr. Ashok K. Chitkara, Hon'ble Chancellor, Chitkara University.

The faculty members of the Department of Computer Applications namely Dr. Jaiteg Singh, Professor & Dean, Mr. Preetinder Singh Brar, Associate Professor & Program Incharge, Mr. Rajesh Kaushal, Associate Professor, and Mr. Naveen Kumar, Assistant Professor were awarded under different categories during the grand awards ceremony.



Dr. Jaiteg Singh won the award in the category of "Research Excellence". Among faculty members, Mr. Preetinder Brar won the award in the category of "Most Committed" faculty. Mr. Rajesh Kaushal and Mr. Naveen Kumar won the awards in the categories- "Most Enterprising and Emerging Leader" & "Most Collaborative" respectively.



# Research and Publications

## Book

- Sharma, C. and Singh, J. (2019), “An Automated Approach to Envisage Software Requirements”, Lambert Academic Publishing

## Journals

- Khattar, N., Sidhu, J., and Singh, J. (2019), “Towards Energy Efficient Cloud Computing: A Survey of Dynamic Power Management and Heuristics-based Optimization Techniques”, The Journal of Supercomputing, 1-61
- Kaur, A. and Singh, J. (2019), "Prediction of QoS factors in Symphony Framework", Journal of Advanced Research in Dynamical and Control Systems, 11(05)-Special Issue, pp 487-495
- Kumar, N., Panda, S. N., Pradhan, P., and Kaushal, R. (2019), “IoT based E-Critical Care Unit for Patients In-Transit”, Indian Journal of Public Health Research & Development, 10(3)

## Conferences

- Roy, T. and Singh, J. (2019, March), “A Note of Wired and Wireless Sensor Communication using Arduino Board and NodeMCU”, SSIC, Manipal University, Jaipur, India
- Gupta, S., Mittal, R., and Mittal, A. (2019, March), “Modeling the Intentions to Adopt UPIs: A PLS-SEM Approach”, IEEE 13th IndiaCom – 6th International Conference on Intelligent Machines, BVICAM, New Delhi, India
- Kaushal, R., Panda, S.N., and Kumar, N. (2019, March), “Identification of Effective Scaffolding to Novices using CBLE”, International Conference on Intelligent Machines, Baba Farid College of Engineering and Technology, Bhatinda, India
- Kaur, J. (2019, March), “A Survey of DDoS Defense Mechanisms in Software-Defined Networks (SDN)”, International Conference on Intelligent Machines, Baba Farid College of Engineering and Technology, Bhatinda, India



## Student Achievements

Gurkiran Singh of BCA 2x2 got first position for Amplifier event held in Explore student fest 2019.

Jaswinder Singh of BCA 6X won cash prize of Rs.10,000 for outstanding contribution under Swachh Bharat Internship Programme of Govt. of India.



NOVATE 2019 (Annual innovation challenge of Chitkara University) was held at Chitkara University, Punjab on April 2, 2019 wherein eleven teams from Department of Computer Applications participated. The event saw participations and demonstrations by 68 teams showcasing their different projects. Prabhat (student of MCA-2nd year) bagged the first prize for his project titled "Square One Application" that was developed under the supervision of Dr. Jaiteg Singh (Prof. & Dean, Department of Computer Applications). The project intends to automate the manual processing of orders at the on-campus eating joint (SquareOne). The award comprised of a cash prize of Rs. 10,000 besides a certificate.





# Department Ranking

India Today Magazine Ranking: CUIET has been ranked 48th in Top 80 best BCA Colleges in India



According to GHRDC ranking of Top BCA Colleges in India, Chitkara University Institute of Engineering and Technology, Punjab, has been ranked 3rd in the list.



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## Overall Ranking of Top BCA Colleges in India

Rank	Name of the BCA College	Infrastructure (Physical & Academic) (150)	Faculty Strength, Publication, Research, MDP, Consultancy & Other Programmes (250)	Admission, Curriculum & Delivery System (150)	Placement (National & International), USP, Social Responsibility, Networking & Industry Interface (200)	Total Score (750)
1	Presidency College, Bengaluru, Karnataka	110.57	173.00	111.29	131.21	526.06
2	Institute of Management Studies, Noida, Uttar Pradesh	99.66	158.98	99.18	123.66	481.48
3	Chitkara University Institute of Engineering & Technology, Rajpura, Punjab	96.14	155.41	97.59	120.26	469.4



## Farewell 2K19

Students of Department of Computer Applications celebrated a farewell fiesta - À BIENTÔT 2019 on April 26, 2019. The students were happy to showcase their talent at this platform. They had a lot of fun and enjoyed various performances such as dancing, singing, fashion show amongst others. The highlights were a foot-tapping Bhangra & Natti dance. The students were awarded in various categories such as: 'Mr. A'bientot BCA' - Paras Khurana; 'Ms. A'bientot BCA' - Samiksha Ahuja; 'Mr. A'bientot MCA' - Yugam and 'Ms. A'bientot MCA' - Megha Mukherjee. Other winners included Shalini (BCA) - 'Ms. Classy'; Chirag (BCA) - 'Mr. Winsome' and Shivam (BCA) - 'Most Sagacious'. Chitkara University wishes its graduating MCA / BCA students boundless success wherever they go!





# PAPER CLUB



Paper Club sessions under Department of Computer Applications were designed to inculcate scientific writing skills among graduate and under-graduate students. The sessions focused on technical writing, problem identification and literature review, and manuscript formatting. The resource person, Dr. Amandeep Kaur Bhullar (Associate Professor) used a hands-on approach in mentoring individual students in the art and science of technical writing. The core objective of these sessions was to undertake the research effectively in the discipline of computer science and to convert full manuscripts into publishable articles of high quality in journals, conference proceedings and periodicals.

The sessions conducted have been outlined in the adjacent table depicting the steps starting from identifying a problem to the final submission of the article.

Sessions	Contents	Scheduled as per Academic Calendar
Session 1	Session on Scientific Manuscript Reading and Writing	February 11, 2019
Session 2	Identification of Problem Statement and Literature Review	March 7, 2019
Session 3	Share issues finding during literature survey	March 14, 2019
Session 4	Familiarity with Documentation Style Start writing rough draft Continue with Literature Survey and finding more issues as much as possible	March 28, 2019
Session 5	Find out Research Gaps from problems identified in existing approaches Continue to start with Review Paper or try to fill a research gap in research paper	April 4, 2019
Session 6	Review of rough draft and Rewrite the paper based on comments	April 25, 2019

Resource Person: Dr. Amandeep Kaur Bhullar





# ***Placements Record 2K19***

***BCA and  
MCA Graduates***



## BCA Placements

						
Abhijit eClerx	Abhinav Infosys, TCS	Abhishek Puri Convergys	Ajay Pal Convergys, Teleperformance	Ajay Yadav TCS	Anmol Mehta Infosys	Avikunj TCS, Convergys
						
Avneet Kaur Infosys	Chirag Infosys, TCS, Convergys	Geetik Convergys, Teleperformance	Harjinder Infosys	Harpreet TCS, Convergys, Studio Graphene	Himanshi Convergys, Wipro	Harshpreet Singh Infosys
						
Hrithik eClerx	Ishmeet TCS, Infosys, Convergys	Jagir Singh Infosys	Jasmine Kaur Convergys	Jasmine Narang Infosys, Convergys	Kamal Sharma Infosys	Kanishk Rajpal Convergys, Wipro
						
Kartik Bajaj ZapBuild	Kashish Thakur Infosys	Madhav Kanwar Infosys, Convergys	Manendar Pal Singh Infosys	Manpreet Chana Infosys, Convergys	Mansi Babbar Teleperformance	Mitali Jindal TCS, Infosys, Convergys
						
Naina Bhardwaj Teleperformance	Niharika Kanwar eClerx	Paras Khurana TCS, Infosys, Convergys	Rhythm Teleperformance	Ritika Vohra TCS	Rohan Gupta Infosys	Saajan Verma TCS, Convergys
						
Sagar Gupta TCS	Samiksha Ahuja Convergys, Mastech	Sapna Sohi ZapBuild	Shalini TCS	Shweta Singh Convergys	Vikas Gupta ZapBuild	Vishal Dhiman Teleperformance
						
Anmol Batra TCS, Infosys, Convergys	Teena Infosys	Sandeep Verma Teleperformance	Abhinandan Mittal Infosys	Amisha Sharma Convergys	Chawla Anchal Lalit Infosys	Danish Mehta Convergys, Wipro



						
Himanshu Jain Infosys	Konark Kapil Infosys	Loveleen Sharma eClerx	Nishi Sharma TechMahindra	Priya Infosys	Shivangi eClerx	Shranya Sharma Wipro
						
		Srishti Convergys	Uma Wipro	Vanshuka Puri Convergys		

MCA Placements						
						
Akshay Kumar ITBD	Yugam Uppal CURIN	Arshiya Nagpal Infosys	Barinder Singh CURIN	Gagandeep ITBD	Komal Infosys	Madhav Ojha Net2Source
						
Megha Mukherjee Merkel Sokarti	Milan Mittal AnyWebDesign	Mohit Yadav AnyWebDesign	Neha Kumari Fiserv	Preety Bhasin Armentum	Sagar Kaushal DatatoBiz	Vinay Nischal CURIN
						
Abhishake Jain Knack Systems	Amandeep Singh ITBD	Bharat Chhabra ITBD	Gurpreet Kaur CodeBrew	Kartik ITBD	Nimish ITBD	Rachit ITBD
						
		Rishabh Sehghal Amazing IT	Samad Amazing IT			



## *A Brain Teaser*

5	3			7				
6			1	9	5			
	9	8					6	
8				6				3
4			8		3			1
7				2				6
	6					2	8	
			4	1	9			5
				8			7	9

### *Solution of Last Issue*

1	4	9	2	3	7	5	8	6
7	6	2	1	5	8	9	4	3
5	8	3	9	6	4	2	1	7
4	7	1	3	9	2	6	5	8
3	2	5	7	8	6	1	9	4
8	9	6	5	4	1	7	3	2
6	1	8	4	7	5	3	2	9
9	5	7	8	2	3	4	6	1
2	3	4	6	1	9	8	7	5

## *Nouvelle Liberation*

### *Editorial Section*

*We present the current issue of our newsletter and we hope to get due feedback from our readers which can help us in improving our next issues.*

*“Happy Reading”*

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