

SAMPLE TEST PAPER ·

Resonance National Entrance Test (ResoNET)

For Pre-foundation Career Care Programmes (PCCP)

FOR CLASS X/ WINNER/ SMART



Practice, Persistence and Performance

 \mathbf{V}





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- Strive to continuously improve our processes and quality of deliverables

R.K. Verma (RKV Sir) B.Tech. (IIT-Madras, 1994) Founder | Managing Director Head (Academics) | Sr. Faculty (Physics)

About Resonance: Place : Kota (Rajasthan) Established on: 11th April, 2001

S.No.	Academic Division	Classes	Target Examinations
1.	Pre-Engineering Division: JEE (Advanced)	IX, X, XI, XII & XII+	JEE (Advanced) JEE (Main) Olympiads
2.	Pre-Engineering Division: JEE (Main)	IX, X, XI, XII & XII+	JEE (Main) Other Engineering Entrance Exams
3.	Pre-Medical Division	IX, X, XI, XII & XII+	NEET (UG) Olympiads
4.	Pre-foundation Career Care Programme Division (PCCP)	V, VI, VII, VIII, IX & X	School & Board Exams NTSE Olympiads STSE
5.	Commerce & Law Programme Division (CLPD)	XI, XII & XII+	CA CS CLAT Board CUET (UG) UG & PG
6.	Pre-university & School Preparatory Division (PSPD)	XI, XII & XII+	Board Exams CUET-UG IPMAT JIPMAT BITSAT STSE UCEED College Entrance Exam UG & Scholarship Exams
7.	Resonance Multiple Examination Division (ResoMEx)	XII+ UG & PG	SSC BANKS RAILWAYS NDA Other Govt. & Private Recruitment Exams
8.	Distance Learning Programme Division (DLPD)	V to XII & XII+	JEE (Main) JEE (Advanced) NEET (UG) OLYMPIADS PRE-FOUNDATION OTHERS
9.	EdTech Division	V to XII & XII+	JEE (Main) JEE (Advanced) NEET (UG) PRE-FOUNDATION
10.	Resonance International Studies Division (Reso-ISD)	VI to XII & XII+	JEE (Main) JEE (Advanced) NEET (UG) OLYMPIADS PRE-FOUNDATION Upcoming: SAT IELTS GRE PTE





(For Class-IX Passed Students)

CLASS-X (FOR CLASS IX TO X/WINNER/SMART MOVING STUDENT)

TARGET: SCHOOL / OLYMPIAD/NTSE

S.No.	Particulars		Page Number	
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1	Guidelines and Instructions for Entrance Test	2	2	1
2	ResoNET Question Paper Structure & Syllabus	3	3	1
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4	Sample Test Paper: Answer Key (AK)	11	11	1
5	Sample ORS Answer Sheet for Resonance National Entrance Test (ResoNET)	12	12	1
	Total Pages			11

The sample test papers are only for reference and guidance. The sample papers given in the booklet are actually the papers of previous year's ResoNET conducted by Resonance for its various courses.

Note : Resonance reserves the right to change the pattern of Resonance National Entrance Test (ResoNET). Pervious year papers do not guarantee that the papers for this year selection test will be on the same pattern. However, the syllabus of the test paper will be equivalent to the syllabus of qualifying school/board examination and as given on page nos. 1 to 12.

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GUIDELINES AND INSTRUCTIONS FOR ENTRANCE TEST

FOR ONLINE EXAMINATION

In Online Examination system; Test will be conducted in fully computerized, user friendly mode with advanced security features making it fair, transparent and standardized.

Information & Instructions:

- 1. The examination does not require using any paper, pen, pencil and calculator.
- 2. Every student will take the examination on a Laptop/Desktop/Smart Phone.
- 3. If you are using your personal laptop/Desktop, please make sure that you have installed the necessary software and programs & having proper internet connection before the examination day. It is important that your laptop/desktop/Smartphone-Mobile fulfils the system requirements of the programme.
- 4. You must bring your own power supply for use during the examination.
- 5. If failure to comply with these recommendations results in technical problems that cause a delay in your examination, you cannot expect to be granted extended time.
- 6. Kindly remember your Resonance Application Form No. as a Roll No.
- 7. You are not permitted to leave the Venue/any movement from Laptop/Desktop/Mobile screen during examination.
- 8. The students just need to click on the Right Choice / Correct option from the multiple choices /options given with each question. For Multiple Choice Questions, each question has four options, and the candidate has to click the appropriate option.

FOR OFFLINE EXAMINATION

- 1. This booklet is your Question Paper.
- 2. The Question Paper Code is printed on the top right corner of this sheet.
- **3.** Blank papers, clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form are not allowed to be used.
- 4. Write your Name & Application Form Number in the space provided in the bottom of this booklet.
- 5. Before answering the paper, fill up the required details in the blank space provided in the Objective Response Sheet.
- 6. Do not forget to mention your paper code and **Application Form Number** neatly and clearly in the blank space provided in the Objective Response Sheet (ORS) / Answer Sheet.
- 7. No rough sheets will be provided by the invigilators. All the rough work is to be done in the blank space provided in the question paper.
- 8. No query related to question paper of any type is to be put to the invigilator.



RESONET QUESTION PAPER STRUCTURE

	For Class IX to X Moving Student						
					Marking Scheme		
S.No.	Part	Subject	Type of Question	No. of Ques.	Full Marks per Qs.	Negative Marking	Total
1 to 25	I	Mathematics	Single Choice Questions (Only One Correct Option) (MCQ)	25	3	0	75
26 to 35	Ш	Physics	Single Choice Questions (Only One Correct Option) (MCQ)	10	3	0	30
36 to 45	ш	Chemistry	Single Choice Questions (Only One Correct Option) (MCQ)	10	3	0	30
46 to 55	IV	Biology	Single Choice Questions (Only One Correct Option) (MCQ)	10	3	0	30
56 to 70	v	Mental Ability	Single Choice Questions (Only One Correct Option) (MCQ)	15	3	0	45
			Total	70			210

RESONET SYLLABUS

	FOR CLASS IX TO X MOVING STUDENT			
SUBJECT	SYLLABUS FROM CLASS	ΤΟΡΙϹ		
MATHEMATICS IX		Number System, Polynomials, Coordinate Geometry, Lines and Angles, Congruent Triangles, Heron's Formula, Linear Equation in two variables, Quadrilaterals, Area of Parallelograms, Triangles, Circles, Surface Area and Volume, Statistics, Probability.		
PHYSICSIXMotion, Force an Power, Wave Motion		Motion, Force and Newton's Laws, Gravitation, Fluid, Work, Energy and Power, Wave Motion And Sound.		
CHEMISTRY IX Matter in our Surroundings, Is Matter Around us Pure, Atoms an Molecules, Structure of Atom.		Matter in our Surroundings, Is Matter Around us Pure, Atoms and Molecules, Structure of Atom.		
BIOLOGY		Fundamental unit of life, Tissue, Improvement in food resources, Diversity of living organism, Why do we fall ill, Naturalresources.		
MENTAL ABILITY	IX	Number-Series, Alphabet-Series, Missing Term in Figures, Coding-Decoding, Direction, Sense Test, Seating Arrangement, Puzzle Test, Syllogism, Day, Date and Time, Dice Test, Cube Test, Non-Verbal Series, Non-Verbal Analogy, Non-Verbal Classification.		







(For Class-IX Passed Students)

CLASS-X (FOR CLASS IX TO X/WINNER/SMART MOVING STUDENT)

TARGET: SCHOOL / OLYMPIAD

	For Class IX to X Moving Student						
				No. of	Mar	king Scheme	
S.No.	Part Sul	Subject	Type of Question	Ques.	Full Marks per Qs.	Negative Marking	Total
1 to 25	I	Mathematics	Single Choice Questions (Only One Correct Option) (MCQ)	25	3	0	75
26 to 35	П	Physics	Single Choice Questions (Only One Correct Option) (MCQ)	10	3	0	30
36 to 45 III Chemistry		Chemistry	Single Choice Questions (Only One Correct Option) (MCQ)	10	3	0	30
46 to 55	IV	Biology	Single Choice Questions (Only One Correct Option) (MCQ)	10	3	0	30
56 to 70	v	Mental Ability	Single Choice Questions (Only One Correct Option) (MCQ)	15	3	0	45
		Тс	otal	70			210

PART-I: MATHEMATICS

This section contains 25 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which ONLY ONE is correct.

1.	There are four prime n	umbers written in asce	ending order. The produ	uct of the first three is 385 and
	that of the last three is	1001. The last number	ris:	
	(A) 11	(B) 13	(C) 17	(D) 19

Which of the following is a polynomial :-2.

(A) $x^2 + \sqrt{2}x + \sqrt{3}$ (B) $x^2 + \sqrt{2x} + \sqrt{3}$ (C) $x^2 + \frac{2}{x} + \sqrt{3}$ (D) $x^{3/2} + \sqrt{2}x + \sqrt{3}$

3. If OT and OS are the bisectors of \angle POR and \angle QOR, then \angle TOS is equal to :



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CRO (D) AQ=AR

11. In the diagram O is the centre of a circle. AE + EB = CE + ED. OP \perp AB and OQ \perp CD then true relation between OP and OQ is -

(A) PO > OC

(A) OP > OQ



(D) OP = OQ



	SAMPL	E TEST PAPER (ST	P) CLASS: IX TO	X MOVING
12.	A metallic sheet is of th a square of 8 cm is cut (A) 5420 cm ³	ne rectangular shape wi off. An open box is ma (B) 5320 cm ³	ith dimension 48 cm 360 de of the remaining she (C) 5120 cm ³	cm. From each one of corners, et. Find the volume of the box. (D) 5220 cm ³
	(, , , , , , , , , , , , , , , , , , ,	(_) ==== ===		(_) =_= = = =
13.	For the scores 8, 6, 10 (A) 6.85), 12, 1, 5, 6 and 6 the <i>A</i> (B) 6.75	Arithmetic mean is (C) 6.95	(D) 7
14.	Three unbiased coins	are tossed, What is pro	bability of getting exact	y two heads ?
	(A) $\frac{1}{3}$	(B) $\frac{3}{4}$	(C) $\frac{2}{3}$	(D) $\frac{3}{8}$
15.	If $m^2 - n^2 = 7$, where m	n, n \in Z, then number of	ordered pairs (m, n) is	
	(A) 1	(B) 2	(C) 3	(D) 4
16.	If $abx^2 = (a - b)^2 (x + 1)^2$), then the value of 1+	$\frac{4}{x} + \frac{4}{x^2}$ is :	
	$(A) \left(\frac{a-b}{a+b}\right)^2$	$(B)\left(\frac{a+b}{a-b}\right)^2$	(C) $\left(\frac{a}{a+b}\right)^2$	(D) $\left(\frac{b}{a+b}\right)^2$
17.	AB and CD are two pa \angle FEB. If \angle LEB = 35°,	rallel lines. PQ cuts AB then ∠CFQ will be :	and CD at E and F res	pectively. EL is the bisector of
	(A) 55°	(B) 70°	(C) 110º	(D) 130°
18.	If the three altitudes of (A) isosceles	a ∆ are equal then triar (B) equilateral	ngle is : (C) right angled	(D) none
19.	The points (-5,2) and ((A) same quadrants (C) II and IV quadrants	2,–5) lie in the : s respectively	(B) II and III quadrants (D) IV and III quadrant	s respectively is respectively
20.	The parallel sides of a	trapezium are 60 cm ar	nd 77 cm and non-paral	lel sides are 26 cm and 26 cm.
	The approximate area (A) 1683 cm ²	of trapezium is - (B) 204 cm ²	(C) 1440 cm ²	(D) 1600 cm ²
21.	Straight line 2x + 3y = (A) I Quadrant	6 does not passes thro (B) II Quadrant	ugh (C) III Quadrant	(D) IV Quadrant
22.	Suppose the triangle A E is on BC such that th (i) E is the midpoint of (iii) DE bisects the altit	ABC has an obtuse ang ne segment DE is paral BC ude from C to AB	le at C and let D be the lel to AB. Consider the f (ii) The length of DE is	midpoint of side AC. Suppose following three statements. half the length of AB
	(A) only (i) is true (C) only (i) and (iii) are	true	(B) only (i) and (ii) are (D) all three are true.	true
23.	ABC and BDE are two (ABC) , then k = (A) 1	o equilateral triangles s (B) 1/2	uch that D is the mid-p (C) 1/4	point of BC. If ar (BDE) = k ar



SAMPLE TEST PAPER (STP) | CLASS: IX TO X MOVING

- **24.** The side BC of the triangle ABC is produced to a point D. If the bisectors of $\angle ABC$ and $\angle ACD$ meet at point P, then : (A) $\angle A = \angle P$ (B) $\angle A = \frac{1}{2} \angle P$ (C) $\angle A = 3 \angle P$ (D) $\angle A = 2 \angle P$
- **25.** The probability of three coins falling all heads up when tossed simultaneously is :

1	1	1	1
(A) $\frac{1}{2}$	(B) <u>-</u>	(C) –	(D) —
2	6	8	4

PART-II : PHYSICS

This section contains 10 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.

A body starts from rest at time t = 0, the acceleration time graph is shown in figure. The maximum velocity attained by the body will be:

10

0

11

t(s)

 $a(m/s^2)$

(A)110 m/s	
(B) 55 m/s	

- (C) 650 m/s
- (D) 550 m/s
- A body of mass M strikes against wall with a velocity v and rebounds with the same velocity. Its change in momentum is :
 (A) zero
 (B) Mv
 (C) -Mv
 (D) -2 Mv
- **28.** If two bodies of mass M₁ and M₂ are placed a distance r apart they have a force of gravitation F between them. If both of the masses are reduced to half then force of gravitation would be :

(A)
$$\frac{F}{2}$$
 (B) 2 F (C) $\frac{F}{4}$ (D) F

- 29. The balloon stops rising up beyond a particular height when the density of gas inside the balloon :

 (A) exceeds the density of air outside
 (B) equals the density of air
 (C) becomes less than the density of air
 (D) none of the above
- 30. To lift a 5 kg mass to a certain height, amount of energy spent is 245 J. The mass was raised to a height of :
 (A) 15 m
 (B) 10 m
 (C) 7.5 m
 (D) 5 m
- **31.** Ultrasonic frequency range is : (A) Below 20 Hz (B) 20 Hz to 20 kHz (C) Above 20 kHz (D) No limit
- 32. A body covers half the distance with a speed of 20m/s and the other half with 30m/s. The average speed of the body during the whole journey is :
 (A) Zero
 (B) 24m/s
 (C) 25 m/s
 (D) None of the above
- 33. Two thin circular discs of radii 3 cm and 4 cm respectively are placed separately at the bottom of a vessel containing water. The ratio of thrusts acting on them will be :
 (A) 3 : 4
 (B) 4 : 3
 (C) 5: 2
 (D) 9 : 16

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	SAN	MPLE TEST PAPER	(STP) CLASS: I	X TO X MOVING
34.	When time taker (A) Power increas	n to complete a given ar ses (B) power decrea	mount of work increase ases (C) energy increa	s, then ases (D) energy decreases
35.	A sonar echo tak then the distance	es 4.4s to return from of submarine from the	a submarine. If the spe sonar is :	eed of sound in water is 1500 ms ⁻¹ ,
	(A) 1500 m	(B) 3000 m	(C) 3300 m	(D) 3600 m
		PART-I	II : CHEMISTRY	
This se	ection contains 10 which ONLY ONI	questions. Each questi E is correct.	on has 4 choices (A), (I	B), (C) and (D) for its answer, out of
36.	The following whi (A) Water	ch has definite shape a (B) Ice	and volume is (C) Oxygen	(D) Steam
37.	Which of the follo (A) Brass	wing is an example of H (B) Muddy water	nomogeneous mixture? (C) Soil	(D) All
38.	The molecular ma (A) 16u	ass of the oxygen mole (B) 32u	cule (O ₂) is (C) 34u	(D) 33u
39.	One of the reason (A) Their outermo (B) it is not possib (C) They have un (D) They loose th	ns for the inertness of n ost shells are not compl ole to remove electrons istable configuration. eir valence elctrons eas	oble gases is etely filled. from their outermost sh sily.	nells.
40.	Which of the follo (A) Larva of volca (C) Wood	wing is not matter? anic erruption	(B) pain (D) None of thes	e
41.	Which one of the (A) Marble	following is not a comp (B) Ozone	oound? (C) Alumina	(D) Quicklime
42.	The law which sta (A) Law of multipl (C) Law of consta	ates that matter is neith le proportion. ant proportion.	er created nor destroye (B) law of conser (D) Law of recipr	ed in a chemical reaction is rvation of mass ocal proportion
43.	In an atom, M she (A) 2 electrons	ell can occupy maximur (B) 8 electrons	m of- (C) 18 electrons	(D) 32 electrons
44.	The formula of the (A) MSO₄	e chloride of a metal is (B) M_2 (SO ₄) ₃	MCl ₃ . The formula of its (C) M_3 (SO ₄) ₂	s sulphate is (D) M₄ (SO₄)₃
45.	The number of el (A) 13	ectrons in Al+3 is - (B) 12	(C) 11	(D) 10

PART-IV: BIOLOGY

This section contains 10 questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONLY ONE** is correct.

46.	Organelle without a cel (A) ribosomes	ll membrane is – (B) golgi body	(C) mitochondria	(D) chloroplast
47.	Which of the following (A) sieve tubes	components of phloem (B) companion cells	is non-living (C) phloem fibres	(D) phloem parenchyma
48.	Vermicomposting invol (A) leech	ves – (B) cockroach	(C) earthworm	(D) roundworm
49.	Non flowering plants be (A) cryptpgamae	elongs to (B) phanerogamae	(C) dicot	(D) monocot
50.	Kala-azar (black fever) (A) Protozoan	is caused by (B) fungus	(C) helminth	(D) bacterium
51.	Corrosion of statues ar (A) Photochemical	nd monuments occurs d (B) Co	lue to – (C) Acid rain	(D) Methane

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\square	SAMP	LE TEST PAPER	(STP) CLASS	: IX TO X MOVING
52.	Protein containing pl (A) Elaioplast	astid is (B) Amyloplast	(C) Aleuroplas	t (D) Rhodoplast
53.	A permanent plant tis (A) Parenchyma	ssue made up of livin (B) Collenchyma	ng cells having thick (C) Sclerench	ening at the corners is yma (D) Phloem
54.	Lichens indicate poll (A) O ₃	ution by (B) SO ₂	(C) NO ₂	(D) CO
55.	Choanocytes are uni (A) Protozoa	que to – (B) Annelida	(C) Porifera	(D) Echinodermatas
		PART-V :	MENTAL ABILIT	(
Direc	tions : (56) Which seq given letter series ?	uence of letters whe	n placed at the blanl	ks one after the other will complete the
56.	abc _ d _ bc _ d _ b . (A) bacdc	_ cda (B) cdabc	(C) dacab	(D) dccbd
57.	lf GOOD is written H (A) ESPBN	QRH, how will you v (B) ETHER	vrite DREAM ? (C) ETHPQ	(D) ESHDR
Direc	tions : (58) Find the m	issing numbers.		
58.	3, 1, 4, 5, 9, 14, 23, 1 (A) 32	? (B) 37	(C) 41	(D) 28
59.	Correct the following $16 - 21 \div 7 \times 6 + 3 =$	equations by intercl	hanging two signs.	(2) 20
	(A) – and ÷	(B) + and \times	(C) ÷ and +	(D) \div and ×
60.	At my house I am fac m, and then I go 5 m house ? (A) East	cing West, then I tur to the South and fr (B) West	n left and go 10 m, t om there 5 m to the (C) North	hen I turn 90º anti-clockwise and go 5 West. In which direction am I from my (D) South
Direc	tions : (61) Read the f Five girls are standir the right of Lata.	ollowing information ng in a circle facing t	and answer the que the centre. Suman is	stions given below it. between Lata and Asha. Mamta is to
61.	Who is to the left of A (A) Mamta	Asha if Rajani is the (B) Suman	fifth girl ? (C) Lata	(D) Rajani
Direc	tions (62) : Read the f	following informati	on carefully and an	swer the questions that follows.
62.	 (i) Five friends P, Q, and Hederabad by di (ii) The person who t (iii) R went to Banga (iv) S travelled by Bc (v) Mumbai is not co Which of the followin (A) P – Bus 	R, S and T travelled fferent modes of trar travelled to Delhi did lore by Car and Q w pat whereas T travel nnected by bus to D g combinations of p (B) Q – Aeroplan	to five different cities asport of Bus, Train, <i>i</i> I not travel by boat. vent to Kolkata by Ae led by Train. elhi and Chennai. erson and mode is n e (C) R – Car	of Chennai, Kolkata, Delhi, Bangalore Aeroplane, Car and Boat from Mumbai. Proplane. ot correct ? (D) T – Aeroplane
63.	Which numbered spa	ace in the figure. rep	resents doctors who	are players as well as artists ?
		Player	452 -Doct 673 -Artists	ors
	(A) 2	(B) 3	(C) 6	(D) 7
Direc given decid an ap	statements to be true e e which of the conclusion propriate answer choic	uestion, statements even if they appear t ons logically follow(s e that you think is c	are followed by the to be at variance with s) from the given stat orrect.	conclusions. You have to take the n commonly known facts, and then rements. For each question, mark out

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Directions : (67) A cube is painted red on two adjacent surfaces and black on the surfaces opposite to red surfaces and green on the remaining faces. Now the cube is cut into sixty four smaller cubes of equal size.

- 67.How many smaller cubes have three surfaces painted ?
(A) 4(B) 8(C) 16
- **Directions : (68)** Each of the following questions consists of five figures marked 1, 2, 3, 4 and 5. These figures form a series. Find out the one from the answer figures that will continue the series.
- 68. Problem Figures

Answer Figures

(D) 24



Directions : (69) In each of the following questions, there is a certain relation between two given number on one side of : : and one number is given on another side of : : while another number is to be found from the given alternatives, having the same relation with this number as the numbers of the given pair bear. Choose the best alternative.

- **69.** 425 : 2 :: 613: ? (A) 1 (B) 2 (C) 3 (D) 4
- **Directions : (70)** Out of the four figures (A), (B), (C) and (D), given in each problem, three are similar in a certain way. However, one figure is not like the other three. Choose the figure which is different from the rest.



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SAMPLE TEST PAPER (STP) | CLASS: IX TO X MOVING

FOR CLASS-IX TO X MOVING SAMPLE TEST PAPER (STP)											
ANSWER KEY (AK)											
	Q.No.	1	2	3	4	5	6	7	8	9	10
	Ans.	В	A	С	А	D	В	В	В	С	В
PART-I:	Q.No.	11	12	13	14	15	16	17	18	19	20
MATHEMATICS	Ans.	D	С	В	D	D	В	С	В	С	A
	Q.No.	21	22	23	24	25					
	Ans.	С	D	С	D	С					
PART-II:	Q.No.	26	27	28	29	30	31	32	33	34	35
PHYSICS	Ans.	В	D	С	В	D	С	В	D	В	С
PART-III:	Q.No.	36	37	38	39	40	41	42	43	44	45
CHEINISTRI	Ans.	В	А	В	В	В	В	В	D	В	B D
PART-IV:	Q.No.	46	47	48	49	50	51	52	53	54	55
BIOLOGY	Ans.	A	С	С	А	А	С	С	В	В	С
	Q.No.	56	57	58	59	60	61	62	63	64	65
PART-IV:	Ans.	С	В	В	В	D	D	D	D	В	В
ABILITY	Q.No.	66	67	68	69	70					
	Ans.	A	В	D	A	В					



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STPPH225_CLASS-X # 11

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