Tob	e filled by the candidate:	98	
		Nº 001538	
Roll	No. (In figures)	8 1	
Roll	No. (In words)		
Nam	ne of the Candidate :		
	er's Name :		
	ter of Examination :		
Tota	al No. of Questions : 100	Total No. of Pages: 14	
	Combined Entrance Test (CET) B.Sc. Medical Technology and B. Pharma (A	Ayurved)	
Tim	e Allowed :180 Minutes	laximum Marks : 100	
<u>IMP</u>	PORTANT NOTE:		
(i)	OMR Answer Sheet will be supplied by the Examination Centre Superintendent for answering the questions.		
(ii)	Use Blue/Black Ink/ Ball Pen only, to darken the appropriate circle in the OMR Answer Sheet.		
(iii)	Darken one circle deeply for each question in the OMR Answer Sheet, as faintly darkened		

- circle might be rejected by the Optical Scanner.
- Darkening of more than one circle shall be rejected by the scanner. Over-writing, cutting, (iv) erasing or use of White Fluid is not allowed.
- Before dealing with the question paper, fill-up the required information with Blue/Black (v) Ball Pen correctly both in the Question Booklet and in the OMR Answer Sheet.
- Do not fold the OMR Answer Sheet nor put any mark here and there to avoid rejection by (vi) software. the
- Write Roll. No. carefully on the OMR Answer Sheet and darken the appropriate circle (vii) properly.
- (viii) Each question carries One Mark. There will be NO NEGATIVE MARKING.
- (ix) Use of Calculator is not allowed.
- Rough work may be done on the sheet(s) at the end. (x)
- MOBILE TELEPHONES (EVEN ON SWITCH-OFF MODE) AND SUCH (xi) OTHER ELECTRONIC DEVICES ARE NOT ALLOWED INSIDE THE **EXAMINATION HALL.**
- The question paper-booklet will be retained by the candidate after the entrance test is over. (xii)

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- 1. National Botanical Institute is located in:
 - A. Mumbai
 - B. Kolkata
 - C. Lucknow
 - D. Chennai
- ICBN stands for:
 - A. International Council for Botanical Nature
 - B. International Code of Botanical Nomenclature
 - C. Indian Code of Botanical Nomenclature
 - D. None of the above
- 3. Which of the following is not a protist?
 - A. Taenia
 - B. Amoeba
 - C. Paramecium
 - D. Euglena
- 4. Select the mismatched pair:
 - A. Cycas Living fossil
 - B. Thuja Agar production
 - C. Pinus Resin, turpentine production
 - D. Araucaria Ornamental plant.
- 5. Tap root originate from:
 - A. Radicle
 - B. Stem
 - C. Leaves
 - D. Adventitious roots
- Roots are modified to haustoria in:
 - A. Cuscuta
 - B. Utricularia
 - C. Trapa
 - D. Vanda
- 7. Sclereids are present in:
 - A. Fruit walls of nuts
 - B. Grit of guava and pear
 - C. Seed coats of legumes
 - D. All of these.
- 8. Heartwood differs from sapwood in:
 - A. Presence of rays and fibres
 - B. Absence of vessels and parenchyma
 - C. Having dead and non conducting elements
 - D. Being susceptible to pests and pathogens.

- 9. Stomata of a plant open when guard cells show:
 - A. Influx of hydrogen ions
 - B. Efflux of potassium ions
 - C. Influx of potassium ions
 - D. All of these
- Reproducing new plants by cells instead of seeds is known as:
 - A. Biofertiliser
 - B. Mutation
 - C. Tissue culture
 - D. Antibiotics
- 11. The coconut water and the edible part of coconut are equivalent to:
 - A. Endosperm
 - B. Endocarp
 - C. Mesocarp
 - D. Embryo
- 12. A person who is trisomic for twenty first pair of chromosomes is:
 - A. Klinefelter's syndrome
 - B. Down's syndrome
 - C. Turner's syndrome
 - D. None of these
- 13. Fossils are generally found in:
 - A. Sedimentary rocks
 - B. Igneous rocks
 - C. Metamorphic rocks
 - D. Any type of rock
- 14. The term 'humulin' is used for:
 - A. Hydrolytic enzyme
 - B. Powerful antibiotic
 - C. Human insulin
 - D. Ioenzyme
- 15. Which of the following risks are associated with genetically modified foods?
 - A. Toxicity in human beings
 - B. Allergic reactions in human beings
 - C. Antibiotic resistance in micro organisms present in alimentary canal
 - D. All of above.
- 16. Acclimatization is:
 - A. introduction
 - B. pure line breeding
 - C. pure line selection.
 - D. adaptation to new environment.

- 17. First biosphere reserve was established in 1986 at:
 - A. Nilgiri
 - B. Nanda Devi
 - C. Rann of kutch
 - D. Sunderbans
- 18. Ozone hole was first discovered over:
 - A. arctic
 - B. tropic
 - C. Antarctic
 - D. polar region.
- 19. Which is not found in Prokaryotic cell:
 - A. Plasma membrane
 - B. Cell Wall
 - C. Nuclear membrane
 - D. Ribosome
- 20. AIDS is widely diagnosed by:
 - A. Widal Test
 - B. PCR
 - A. ELISA
 - D. Chromatography
- 21. Who amongst the following is regarding as the "Father of Taxonomy":
 - A. Takhtajan
 - B. Linnaeus
 - C. Bentham and Hooker
 - D. Theophrastus
- 22. Who developed the "Key" for identification of animals:
 - A. John Ray
 - B. Goethe
 - C. Georges Cuvier
 - D. Theophrastus
- 23. 'Comma' shaped bacteria are known as:
 - A. Coccus
 - B. Spiral
 - C. Spirillum
 - D. Vibrio
- 24. Ginger is an underground stem. It is distinguished from root because:
 - A. It lacks chlorophyll
 - B. It stores food
 - C. It has nodes and internodes
 - D. It has xylem and vessels

- 25. The chief function of phloem is the conduction of:
 - A. Food
 - B. Mineral
 - C. Water
 - D. Air
- 26. Shedding of leaves, flowers and fruits due to change in hormone balance in plants is:
 - A. Senescence
 - B. Abscission
 - C. Photoperiodism
 - D. Vernalization
- 27. Etiolation occurs when plants:
 - A. Are grown in dark
 - B. Are grown in intense light
 - C. Develop viral infection
 - D. Develop mineral deficiency
- 28. Test cross in plants or in Drosophila involves crossing:
 - A. Crossing the F₁ hybrid with a double recessive genotype
 - B. Crossing between two genotypes with dominant trait
 - C. Crossing between two genotypes with recessive trait
 - D. Crossing between two F1 hybrids
- 29. Golden rice is a promising transgenic crop. When released for cultivation, it will help in:
 - A. Producing a petrol-like fuel from rice
 - B. Alleviations of vitamin A deficiency
 - C. Pest resistance.
 - D. Herbicide tolerance
- 30. Which one is endangered animal?
 - A. Lion Tailed Macaque.
 - B. Hanuman Monkey
 - C. Langur
 - D. Antelope
- 31. One of the following is not a possible reason for use of CNG in automobiles:
 - A. It reduces pollution
 - B. It can be adulterated.
 - C. It is cheaper than petrol
 - D. It burns more efficiently

- 32. The gas responsible for the Bhopal tragedy was:
 - A. SO₂ and NO₂
 - B. Ethyl isocyanate
 - C. Methyl isocyanate
 - D. Carbon monoxide
- 33. Tendons connect:
 - A. Nerve to muscle
 - B. Muscle to muscle
 - C. Muscle to Bone
 - D. Bone to Bone
- 34. Which vitamins used to prevent Bleeding?
 - A. vitamin-A
 - B. vitamin-B12
 - C. vitamin-C
 - D. vitamin-K
- 35. Which one is incorrect:
 - A. New individuals replace the dead ones
 - B. Homeostasis produces a self-regulated steady state
 - C. Most homeostatic mechanisms operate through feed-back systems
 - D. Cell obtains instructions for divisions from a hereditary protein.
- 36. Nigrum is one species of genus:
 - A. Mangifera
 - B. Solanum
 - C. Triticum
 - D. Pisum
- 37. Scutellum of Maize/Caryopsis is:
 - A. Cotyledon
 - B. Endosperm
 - C. Tegmen
 - D. Testa
- 38. Smallest bone in human body:
 - A. Stapes
 - B. Scapula
 - C. Radius
 - D. Femur
- 39. The blood vessel that carry Blood from heart to various body parts called:
 - A. Arteries
 - B. Veins
 - C. Septum
 - D. Capillaries

- 40. Tubectomy is a method of sterilization in which?
 - A. Nucleus is removed
 - B. Ovaries are removed.
 - C. Small part of fallopian tube is removed
 - D. Vasa deferens is removed
- 41. An organic compound contains 49.30% carbon, 6.84% hydrogen and its vapour density is 73. Molecular formula of the compound is:
 - A. C, H,O,
 - B. C₆H₁₀O₄
 - C. C₆H₉O
 - D. C₄H₁₀O₂
- 42. Which of the following sets of quantum numbers represents the highest energy of an atom?
 - A. n = 3, 1 = 0, m = 0, s = +1/2
 - B. n = 3, 1 = 1, m = 1, s = +1/2
 - C. n = 3, 1 = 2, m = 1, s = +1/2
 - D. n = 4, l = 0, m = 0, s = +1/2
- 43. A gas occupies a volume of 300 cc at 27°C and 620 mm pressure. The volume of gas at 47°C and 640 mm pressure is:
 - A. 260cc
 - B. 310cc
 - C. 390cc
 - D. 450cc
- 44. If the enthalpies of formation of Al_2O_3 and Cr_2O_3 are -1596 kJ and -1134 kJ respectively, then the values of ΔH for the reaction;

$$2Al + Cr_2O_3 \rightarrow 2Cr + Al_2O_3$$
 will be:

- A. -462 kJ
- B. -1365 kJ
- C. -2530 kJ
- D. + 2350 kJ
- 45. For the reaction:
 - $N_2(g) + 3H_2(g) \rightleftharpoons 2NH_3(g) K_c = 0.061$ at 500 K. At an instant, the reaction mixture has 3 mol L⁻¹ N₂; 2 mol L⁻¹ H₂ and 0.5 mol L⁻¹ NH₃. Which of the following statement is correct?
 - A. Reaction is at equilibrium
 - B. Reaction will tend to proceed in forward direction
 - C. Reaction will proceed in backward direction
 - D. Cannot be predicted

- 46. The anions (A) form hexagonal close packing and atoms (M) occupy only two-third of the octahedral voids. The general formula of the compound is:
 - A. M,A,
 - B. MA
 - C. MA,
 - D. M₃A₂
- 47. 36 g of glucose (molar mass = 180 g/mol) is present in 500 g of water, the molarity of the solution is:
 - A. 0.2
 - B. 0.4
 - C. 0.8
 - D. 1.0
- 48. Arrange the following in the increasing order of oxidation state of Mn:
 - (i) Mn²⁺
- (ii) MnO,
- (iii) KMnO₄ (iv) K₂MnO₄
- A. (i) > (ii) > (iii) > (iv)
- B. (i) < (ii) < (iv) < (iii)
- C. (ii) < (iii) < (i) < (iv)
- D. (iii) < (i) < (iv) < (ii)
- 49. A reaction $A \rightarrow B$ follows second order kinetics, doubling the concentration of A will increase the rate of formation of B by a factor of
 - A. 2
 - B. 1/2
 - C. 4
 - D. 1/4
- 50. Greater the valency, the higher is the coagulating power of ion'. This rule was introduced by:
 - A. Hardy-Schulze
 - B. Graham
 - C. Kossel and Lewis
 - D. Faraday
- 51. The correct order of increasing radii of the ions Br^-, F^-, O^{2-} and S^{2-} is as follows:
 - A. Br -< F -< O $^{2}-<$ S $^{2}-$
 - B. S2-< O2-< F-<Br
 - C. F-< O 2-< S2- <Br
 - D. $F^- < Br^- < O^{2-} < S^{2-}$
- 52. Which of the following pair has same structure:
 - A. PCl₅ and SF₆
 - B. SO₂ and NH₃
 - C. PH₃ and BCl₃
 - D. NH⁺₄ and SO₄⁺

- 53. Which of the following solutes will produce temporary hardness in water?
 - A. MgCl,
 - B. NaCl
 - C. Mg(HCO₃)₂
 - D. NaHCO₃
- 54. The number of 2-electron and 3-centre-2electron bonds in B2H6, respectively, are:
 - A. 4 and 2
 - B. 2 and 4
 - C. 2 and 2
 - D. 2 and 1
- 55. The hybridization of Xe in XeF₂ is:
 - A. sp'
 - B. sp²
 - C. sp'd
 - D. sp'd
- 56. The IUPAC name of [Ni(NH₃)₄] [NiCl₄] is:
 - A. Tetrachloronickel(II) tetraamminenickel (II)
 - B. Tetraamminenickel (II) -Tetrachloronickel (II)
 - C. Tetraamminenickel (II) -Tetrachloronickelate (II)
 - D. Tetrachloronickel (II) -Tetraamminenickelate (II)
- In compound $CH = C C = C = CH CH_3$,

the hybridization on $\overset{3}{C} - \overset{4}{C}$ is:

- A. $sp^2 sp$
- B. $sp^2 sp^2$
- C. $sp^3 sp^2$
- D. sp-sp
- 58. Lindlar's catalyst is:
 - A. Pt in ethanol
 - B. Pd+BaSO₄
 - C. Ni in ethanol
 - D. Na in liquid NH3
- 59. What is DDT among the following?
 - A. A fertilizer
 - B. Biodegradable pollutant
 - C. Non biodegradable pollutant
 - D. Greenhouse gas.

60. In the reaction,

CH-CH-CH₂-O-CH₂-CH₃+HI

CH₃

Heated

CH₂-CH₃+HI

Which of the following compounds will be formed?

- A. CH₃-CH-CH₂OH+CH₃CH₃ | CH₃
- B. CH₃-CH-CH₃+CH₃CH₂OH | CH₃
- C. CH₃-CH-CH₂OH+CH₃CH₂I | CH₃
- D. CH₃-CH-CH₃I+CH₃CH₂OH | CH₃
- 61. Which one of the following reactions cannot be used for the reduction of?

$$R > C = O \longrightarrow R > CH_2$$

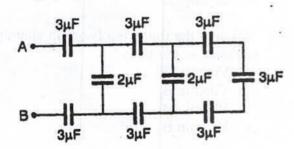
- A. Clemmensen reduction
- B. Wolff-Kishner reduction
- C. Wurtz reaction
- D. HI and red phosphorus at 200°C
- 62. The compound X, in the reaction, is:

 $X \xrightarrow{CH,Mgl} Y \xrightarrow{hydrolysis} Mg (OH)l+CH,COOH$

- A. CH₃CHO
- B. CO₂
- C. (CH₃)₂CO
- D. HCHO
- 63. Arrange the following in increasing order of their basic strength:
 - CH₃NH₂; (CH₃)₂NH;
- (I) (II)
- (CH₃)₂NH; (CH₃)₃N;
- (II)
- C₆H₅CH₂NH₂
- (IV)
- A. IV < III < II < I
- B. IV < III < I < II
- $C. \quad I < II < III < I\Lambda$
- D. $I\Lambda < III < I = II$

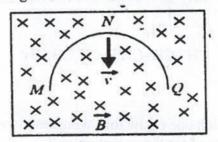
- 64. Oxidation of glucose is one of the most important reactions in a living cell. What is the number of ATP molecules generated in cells from one molecule of glucose?
 - A. 36
 - B. 12
 - C. 18
 - D. 28
- 65. Which of the following is not an artificial sweetener?
 - A. Aspartame
 - B. Sucrolose
 - C. Alitame
 - D. Sucrose
- 66. Which is the correct statement about birth control pills?
 - A. Contain estrogen only
 - B. Contain progesterone only
 - C. Contain a mixture of estrogen & progesterone derivatives
 - D. Progesterone enhances ovulation.
- 67. The monomers of buna-S rubber are:
 - A. Vinyl chloride and Sulphur
 - B. Butadiene
 - C. Styrene and butadiene
 - D. Isoprene and butadiene.
- 68. Which of the following polymer is stored in the liver of animals?
 - A. Amylose
 - B. Cellulose
 - C. Amylopectin
 - D. Glycogen.
- 69. Which of the following B-group vitamins can be stored in our body?
 - A. Vitamin B
 - B. Vitamin B₂
 - C. Vitamin B₆
 - D. Vitamin B₁₂
- 70. Which of the following is 3° amine?
 - A. 1-Methylcyclohexylamine
 - B. Triethylamine
 - C. Test-butylamine
 - D. N-methylaniline

- 71. The heat generated in circle is given by $Q = I^2Rt$, where I is current, R is resistance and t is time. If the percentage errors in measuring I, R and t are 2%, 1% and 1% respectively, then the maximum error in measuring heat is equal to:
 - A. 2%
 - B. 3%
 - C. 4%
 - D. 6%
- 72. Angular momentum of the particle rotating with a central force is constant due to:
 - A. constant torque
 - B. constant force
 - C. constant linear momentum
 - D. zero torque
- 73. A Carnot engine, whose efficiency is 40%, takes in heat from a source maintained at a temperature of 500K. It is desired to have an engine of efficiency 60%. Then, the intake temperature for the same exhaust (sink) temperature must be:
 - A. 1200K
 - B. 750K
 - C. 600K
 - D. Efficiency of Carnot engine cannot be made larger than 50%
- 74. The equivalent capacitance between A and B is (in μ F):

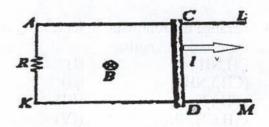


- A. 1μF
- B. 3μF
- C. 2μF
- D. 1.5μF

- 75. The magnetic flux across a loop of resistance 10Ω is given by $\phi = 5t^2 4t + 1$ weber. How much current is induced in the loop after 0.2s?
 - A. 0.4A
 - B. 0.2A
 - C. 0.04A
 - D. 0.02A
- 76. A thin semicircular conducting ring of radius R is falling with its plane vertical in a horizontal magnetic induction B (fig) At the position MNQ the speed of ring is v and potential difference developed across the ring is



- A. zero
- B. $B\nu\pi R^2/2$ and M is at higher potential
- C. πRBv and Q is at high potential
- D. 2RBv and Q is at higher potential
- 77. Two parallel wires AL and KM placed at a distance *l* are connected by a resistance R and placed in a magnetic field B which is perpendicular to the plane containing the wire as shown in fig. Another wire CD now connects two wires perpendicularly and made to slide with velocity *v*. the rate of mechanical work done needed on the wire CD is



- A. $\frac{B^2l^2v^2}{R}$
- C. $\frac{B^2lv^2}{R}$
- B. $\frac{Blv}{R}$
- D. $\frac{B^2l^2v}{R}$

- 78.In a material medium of permittivity ∈ and magnetic permeability μ , the velocity of light becomes:

 - B. $v = \frac{1}{\sqrt{\mu \epsilon}}$ C. $v = \sqrt{\mu \epsilon}$

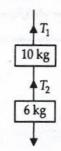
 - D. $v = \sqrt{\frac{\varepsilon}{u}}$
- 79. What will be the magnetic energy density, in the magnetic field B?
 - A. $B^2/2 \mu_0$
 - B. $B/2 \mu_0$
 - C. $2B/\mu_0$
 - D. $2B^2 \mu_0$
- 80. Two sources of intensity I and 4I are used in an interference experiment. The intensity at a point where the waves from the two sources superimpose with a phase difference of $\frac{\pi}{2}$ is:
 - A. 0
 - B. 2I
 - C. 3I
 - D. 5I
- 81. Energy E of a hydrogen atom with principal quantum number n is given by E $=\frac{-13.6}{n^2}$ eV. The energy of a photon ejected when the electron jumps from n = 3 state of n = 2 state of hydrogen approximately:
 - A. 1.5eV
 - B. 0.85eV
 - C. 3.4eV
 - D. 1.9eV
- 82. The van der Waals equation of state for some gases can be expressed as,

$$\left(P + \frac{a}{V^2}\right)(V - b) = RT$$

where P is the pressure, V is the molar volume and T is the absolute temperature of the given sample of gas, a, b and R are constants, the dimensional representation of ab/RT is:

- A. [ML³T⁻²]
- B. $[M^0L^3T^0]$
- C. [ML-1T-2]
- D. None

83. A body of mass 6kg is hanging from another of mass 10kg as shown in fig. This combination is being pulled up by a string with an acceleration of 2ms⁻². The tension T_1 is $(g = 10 \text{ ms}^{-2})$:



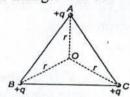
- A. 240N
- B. 150N
- C. 220N
- D. 192N
- 84. The moment of inertia of a disc of mass M and radius R about an axis, which is tangential to the circumference of the disc and parallel to its diameter, is:
 - A. $\frac{3}{2}MR^2$
 - B. $\frac{3}{2}MR^2$
 - C. $\frac{5}{4}MR^2$
 - D. $\frac{4}{5}MR^2$
- 85. Satellite is revolving around earth. If its's radius of orbit is increased to 4 times of the radius of geostationary statellite, what will become its time period?
 - A. 8 days
 - B. 4 days
 - C. 2 days
 - D. 16 days
- 86. A particle is executing linear SHM. The fraction of the total energy that is potential, when its displacement is 1/4 of the amplitude is:
 - $\frac{1}{16}$ A.
 - B.
 - C.
 - D.

87. A system is shown in the fig. The time period for small oscillations of the two blocks will be:



- A. $2\pi\sqrt{\frac{3m}{k}}$
- B. $2\pi\sqrt{\frac{3m}{2k}}$
- C. $2\pi\sqrt{\frac{3m}{4k}}$
- D. $2\pi\sqrt{\frac{3m}{8k}}$
- 88. The rate of flow of electric charge through any cross-section of a conductor is known as......
 - A. Electric flux
 - B. Electric potential
 - C. Electric current
 - D. Electric field
- 89. Unit of conductance is -
 - A. Dyne
 - B. Siemen
 - C. Ohm
 - D. Volts
- 90. The force per unit charge is known as -
 - A. Electric current
 - B. Electric potential
 - C. Electric field
 - D. Electric space
- 91. The property which differentiates two kinds of charges is called
 - A. Equality of charge
 - B. Polarity of charge
 - C. Fraction of charge
 - D. None of the option

- 92. The process in which a region is made free from any electric field is known as—
 - A. Electrostatic forcing
 - B. Electrostatic binding
 - C. Electrostatic shielding
 - D. None of the options
- 93. 1 Volt = ____
 - A. 1 Coulomb
 - B. 1 Newton / 1 Coulomb
 - C. 1 Joule / 1 Coulomb
 - D. 1 Newton / 1 meter
- 94. The work done in moving a unit positive test charge over a closed path in an electric field is———.
 - A. Always 1
 - B. Infinite
 - C. Zero
 - D. Negative
- 95. Four point charges Q, q, 2q and 2Q are placed, one at each corner of the square. The relation between Q and q for which the potential at the centre of the square is zero is:
 - A. Q=-
- B. $Q = -\frac{1}{q}$
- $C \cdot Q = q$
- D. $Q = \frac{1}{q}$
- 96. ABC is an equilateral triangle. Charges + q are placed at each corner. The electric intensity at O, the centroid of the triangle will be:

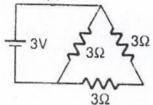


- A. $\frac{1}{4\pi\epsilon_0} \cdot \frac{q}{r}$
- B. $\frac{3}{4\pi\epsilon_0}$ $\frac{q}{r}$

C. 0

 $D.\frac{1}{4\pi\epsilon_0}\cdot \frac{3q}{r^2}$

97. A 3-volt battery with negligible internal resistance is connected in a circuit as shown in the fig. The current I in the circuit will be :



- A. 1A
- B. 1.5A
- C. 2A
- D. 1/3A
- 98. A magnet of magnetic moment 10 Am² is freely suspended in a uniform magnetic field of strength 5T. The work done is rotating the magnet through an angle 60° is given by:
 - A. 5J
 - B. 10J
 - C. 25J
 - D. 50J
- 99. In an oscillation LC circuit, maximum charge on the capacitor is O The charge on this capacitor, when the energy is stored equally between the electric and magnetic fields is:
 - A. Q

 - A. QB. $\frac{Q}{2}$ C. $\frac{Q}{\sqrt{3}}$ D. $\frac{Q}{\sqrt{2}}$
- 100. The magnetic field of a beam emerging from a filter facing a floodlight is given

 $B_0=12X10^{-8}\sin(1.20X10^7z-3.60X10^{15}t)$ T. What is the average intensity of the beam?

- A. 1.91 Wm⁻²
- B. 1.71 Wm⁻²
- C. 200 Wm⁻²
- D. 1.5 Wm⁻²

SPACE FOR ROUGH WORK

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