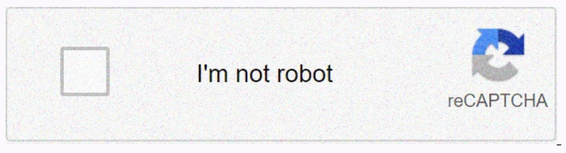

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Theoretical Computer Science Cheat Sheet

$\pi \approx 3.14159$, $e \approx 2.71828$, $\gamma \approx 0.57721$, $\phi = \frac{1+\sqrt{5}}{2} \approx 1.61803$, $\hat{\phi} = \frac{1-\sqrt{5}}{2} \approx -.61803$

i	2^i	p_i
1	2	2
2	4	3
3	8	5
4	16	7
5	32	11
6	64	13
7	128	17
8	256	19
9	512	23
10	1,024	29
11	2,048	31
12	4,096	37
13	8,192	41
14	16,384	43
15	32,768	47
16	65,536	53
17	131,072	59
18	262,144	61
19	524,288	67
20	1,048,576	71
21	2,097,152	73
22	4,194,304	79
23	8,388,608	83
24	16,777,216	89
25	33,554,432	97
26	67,108,864	101
27	134,217,728	103
28	268,435,456	107
29	536,870,912	109
30	1,073,741,824	113
31	2,147,483,648	127
32	4,294,967,296	131

Pascal's Triangle

1
1 1
1 2 1
1 3 3 1
1 4 6 4 1
1 5 10 10 5 1
1 6 15 20 15 6 1
1 7 21 35 35 21 7 1
1 8 28 56 70 56 28 8 1
1 9 36 84 126 126 84 36 9 1
1 10 45 120 210 252 210 120 45 10 1

General

Bernoulli Numbers ($B_i = 0$, odd $i \neq 1$):
$B_0 = 1$, $B_1 = -\frac{1}{2}$, $B_2 = \frac{1}{6}$, $B_4 = -\frac{1}{30}$, $B_6 = \frac{1}{42}$, $B_8 = -\frac{1}{30}$, $B_{10} = \frac{5}{66}$.

Change of base, quadratic formula:
$$\log_b x = \frac{\log_a x}{\log_a b}, \qquad \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}.$$

Euler's number e:
$$e = 1 + \frac{1}{2} + \frac{1}{6} + \frac{1}{24} + \frac{1}{120} + \cdots$$
$$\lim_{n\to\infty}\left(1 + \frac{x}{n}\right)^n = e^x.$$
$$\left(1 + \frac{1}{n}\right)^n < e < \left(1 + \frac{1}{n}\right)^{n+1}.$$
$$\left(1 + \frac{1}{n}\right)^n = e - \frac{e}{2n} + \frac{11e}{24n^2} - O\left(\frac{1}{n^3}\right).$$

Harmonic numbers:
$$1, \frac{3}{2}, \frac{11}{6}, \frac{25}{12}, \frac{137}{60}, \frac{49}{20}, \frac{363}{140}, \frac{761}{280}, \frac{7129}{2520}, \ldots$$
$$\ln n < H_n < \ln n + 1,$$
$$H_n = \ln n + \gamma + O\left(\frac{1}{n}\right).$$

Factorial, Stirling's approximation:
$$1, 2, 6, 24, 120, 720, 5040, 40320, 362880, \ldots$$
$$n! = \sqrt{2\pi n}\left(\frac{n}{e}\right)^n\left(1 + \Theta\left(\frac{1}{n}\right)\right).$$

Ackermann's function and inverse:
$$a(i,j) = \begin{cases} 2^j & i = 1 \\ a(i-1,2) & j = 1 \\ a(i-1,a(i,j-1)) & i,j \geq 2 \end{cases}$$
$$\alpha(i) = \min\{j \mid a(j,j) \geq i\}.$$

Binomial distribution:
$$\Pr[X = k] = \binom{n}{k} p^k q^{n-k}, \qquad q = 1 - p,$$
$$\mathrm{E}[X] = \sum_{k=1}^{n} k\binom{n}{k} p^k q^{n-k} = np.$$

Poisson distribution:
$$\Pr[X = k] = \frac{e^{-\lambda}\lambda^k}{k!}, \quad \mathrm{E}[X] = \lambda.$$

Normal (Gaussian) distribution:
$$p(x) = \frac{1}{\sqrt{2\pi}\sigma} e^{-(x-\mu)^2/2\sigma^2}, \quad \mathrm{E}[X] = \mu.$$

The "coupon collector": We are given a random coupon each day, and there are n different types of coupons. The distribution of coupons is uniform. The expected number of days to pass before we to collect all n types is
$$nH_n.$$

Probability

Continuous distributions: If
$$\Pr[a < X < b] = \int_a^b p(x)\,dx,$$
then p is the probability density function of X. If
$$\Pr[X < a] = P(a),$$
then P is the distribution function of X. If P and p both exist then
$$P(a) = \int_{-\infty}^{a} p(x)\,dx.$$

Expectation: If X is discrete
$$\mathrm{E}[g(X)] = \sum_x g(x)\Pr[X = x].$$
If X continuous then
$$\mathrm{E}[g(X)] = \int_{-\infty}^{\infty} g(x)p(x)\,dx = \int_{-\infty}^{\infty} g(x)\,dP(x).$$

Variance, standard deviation:
$$\mathrm{VAR}[X] = \mathrm{E}[X^2] - \mathrm{E}[X]^2,$$
$$\sigma = \sqrt{\mathrm{VAR}[X]}.$$

For events A and B:
$$\Pr[A \vee B] = \Pr[A] + \Pr[B] - \Pr[A \wedge B]$$
$$\Pr[A \wedge B] = \Pr[A] \cdot \Pr[B],$$
iff A and B are independent.
$$\Pr[A|B] = \frac{\Pr[A \wedge B]}{\Pr[B]}$$

For random variables X and Y:
$$\mathrm{E}[X \cdot Y] = \mathrm{E}[X] \cdot \mathrm{E}[Y],$$
if X and Y are independent.
$$\mathrm{E}[X + Y] = \mathrm{E}[X] + \mathrm{E}[Y],$$
$$\mathrm{E}[cX] = c\,\mathrm{E}[X].$$

Bayes' theorem:
$$\Pr[A_i|B] = \frac{\Pr[B|A_i]\Pr[A_i]}{\sum_{j=1}^{n}\Pr[A_j]\Pr[B|A_j]}.$$

Inclusion-exclusion:
$$\Pr\left[\bigvee_{i=1}^{n} X_i\right] = \sum_{i=1}^{n}\Pr[X_i] + \sum_{k=2}^{n}(-1)^{k+1}\sum_{i_1 < \cdots < i_k}\Pr\left[\bigwedge_{j=1}^{k} X_{i_j}\right].$$

Moment inequalities:
$$\Pr\left[|X| \geq \lambda\,\mathrm{E}[X]\right] \leq \frac{1}{\lambda},$$
$$\Pr\left[\left|X - \mathrm{E}[X]\right| \geq \lambda \cdot \sigma\right] \leq \frac{1}{\lambda^2}.$$

Geometric distribution:
$$\Pr[X = k] = pq^{k-1}, \qquad q = 1 - p,$$
$$\mathrm{E}[X] = \sum_{k=1}^{\infty} kpq^{k-1} = \frac{1}{p}.$$

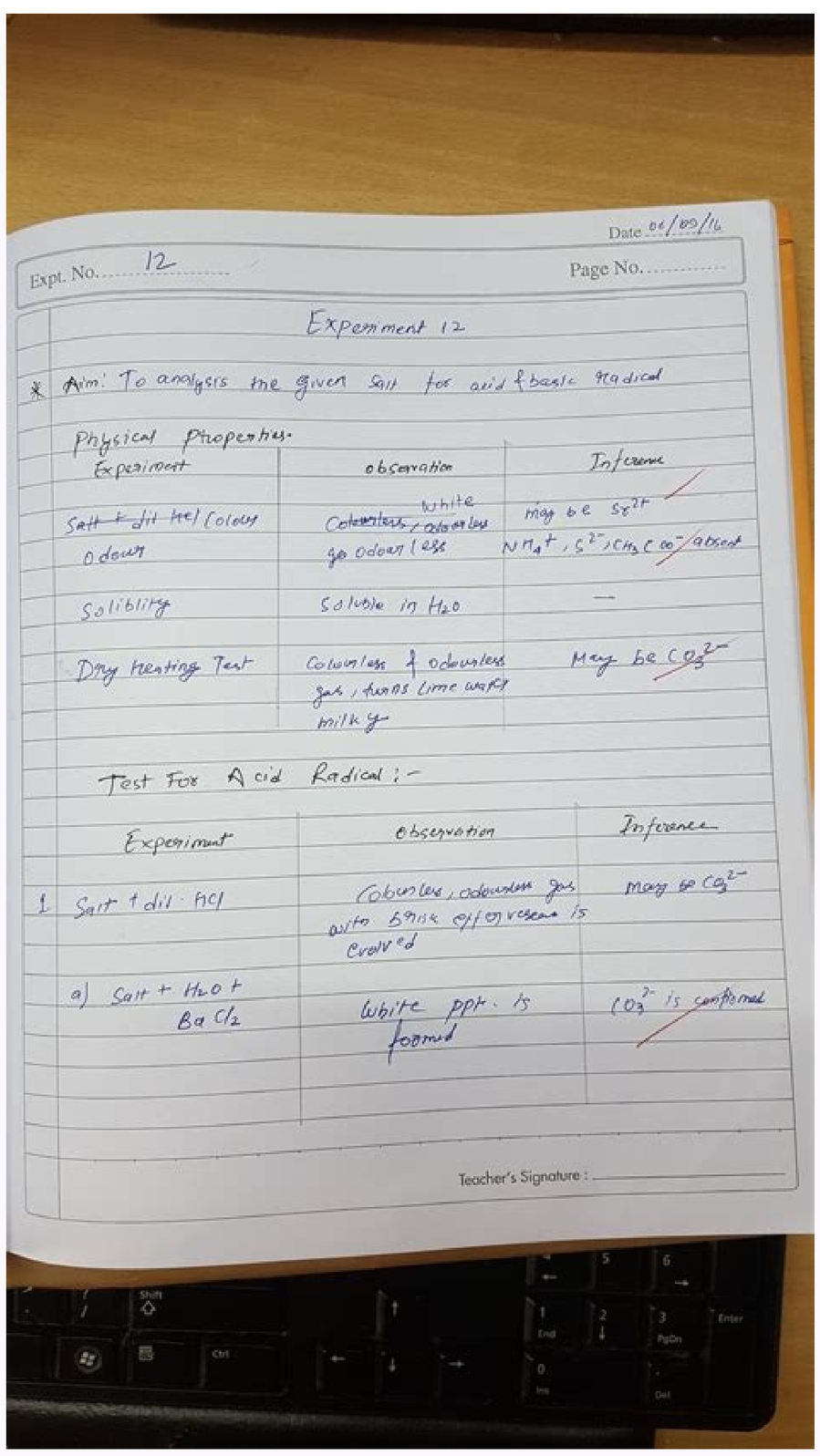
---

b) In which of the following lowering of vapour pressure would be maximum ?
i) 0.1 M BaCl2
ii) 0.1 M Glucose
iii) 0.2 M Urea
iv) 0.1 M NaCl. **1**

c) In a crystal system a = b = c and $\alpha = \beta = \lambda \neq 90^\circ$, this system is
i) Tetragonal
ii) Hexagonal
iii) Rhombohedral
iv) Monoclinic. **1**

d) In a chemical reaction, the effect of catalyst is to change
i) Activation energy
ii) Equilibrium concentration
iii) Heat of reaction
iv) Final product. **1**

e) In the presence of light, chloroform oxidises to produce
i) Carbon tetrachloride
ii) Carbonyl chloride
iii) Dichloromethane



Date 06/05/16

Expt. No. 12 Page No.

Experiment 12

* Aim: To analysis the given salt for acid & basic radical

Physical Properties.

Experiment	observation	Inference
Salt + dil Hcl Colour	~~Colourless~~ white, ~~odourless~~	may be S^{2-}
Odour	gas odour like	NH_4^+, S^{2-}, CH_3COO^- ~~absent~~
Solibility	Soluble in H_2O	—
Dry Heating Test	Colourless & odourless gas, turns lime water milky	May be ~~CO_3^{2-}~~

Test For Acid Radical :-

	Experiment	observation	Inference
1	Salt + dil. HCl	Colourless, odourless gas with brisk effervescence is evolved	may be CO_3^{2-}
	a) Salt + H_2O + $BaCl_2$	White ppt. is formed	CO_3^{2-} is confirmed

Teacher's Signature :

Comments on written exam students should: Read the question carefully to ensure that the important components of the question are not lost have a clear understanding of the keywords in the question and recognizing the intention of the question and its requirements plan the Answer to help in the libic sequenciaciation of the integrated scientific terms relevant in your responses to commit to any material of the stimulus provided and consult it in your response. Significant present a libic and succinct response that addresses the question of the question. To ensure that you address the requirements of the question. Ã Reas for students to improve: being explained in the response when referring to the graphic to identify the trends to explain the effect of the resistance in the relevant pH for the tendency of tendency in the graph that Explain the effect of the concentration of É¡ido on the pH and this are related to the tendency lines were careful with the use of pronouns, since there were two ones in the question. The students for students to improve: write an balanced net ianical equation to indicate a precipitation reaction identify the source ions when performing the precipitation reaction that applies its prior knowledge of the preliminary mode. The areas for students to improve: Analyze the stimulus instead of modifying existing knowledge so that they fit the question misunderstood by the oxidation of the etene as polymerization or poorly interpreted combustion. of ethylene assuming that it is present as a refrigerant clearly that clearly shows cause and effect between the chosen factor and why it was considered differentiating between availability and accessibility of reagents. Areas for students to improve: using Q by doing correctly "water 4.18 x 103 J kg-1 K -1 differentiated between ≥ H and q. Areas to improve in: write the constant expression of balance before replacing values recognizing the difference between initial concentrations and balances of reactionaries and products that perform numerical calculations with numerators, denominators and terms with indices. Areas for students to improve in: write balanced chemical equations including states especially for dissociation reactions including clear logical calculations for all steps recognizing Ksp and being able to write a Ksp expression avoiding the confusion of Ksp with Keq expressions and therefore recognizing situations in which the ICE tables were not required to calculate pH of the concentration of hydropO = ions correctly -log [OH] Chemistry HSC exam paper 2020 1 MB, 40 Pages Chemistry Marking Guides 2020 4557 KB, 22 Pages Select from the link(s) below to see the opinion of the students that were performed at this year's exam. Question 24 In better answers the students could: identify the correct name or structure write properly balanced link the formation of soot to insufficient oxygen or molar ratio of oxygen in both equations when the same moles of diesel/biodiesel were used include units in their response show cause and effect for each explanation. Feedback may not be provided for every question. Question 30 In better responses students were able to: use and explicitly refer to the spectroscopic data to put together the pieces of the puzzle clearly show their thinking processes annotate the spectroscopic data. Areas for students to improve in: understanding what a primary standard is and what makes an acceptable primary standard demonstrating an understanding of indicator ranges appreciating different acid/base reactions. Get our latest COVID-19 advice Get our latest COVID-19 advice {} Print Download Share Copy URL to LinkedIn Copy URL to Facebook Copy URL to Twitter Share page via Email Copied Copy URL to Clipboard Marking guidelines are developed with the examination paper and are used by markers to guide their marking of a student's response. Areas for students to improve: drawing the correct structural formula ensuring soot is identified as C(s) balancing equations correctly showing full working ensuring effects relate to the identified cause ensuring advantages and disadvantages are not merely identified/outlined. Question 34 In better responses students were able to: clearly identify trends in the graph explain the trends with the appropriate terms to each particular trend write relevant correct equations for the ionisation of the named strong and weak acids. Question 26 In better responses students were able to: write a balanced chemical equation including states and equilibrium arrows clearly articulate that both the forward and the reverse reaction rates are increased and describe why one increases more than the other identify the reaction is endothermic, will make more products, and K will increase clearly describe collision theory etropsnart le ricuder ed soicifeneb sol nacilpxe ojulf ed amargaid led setrap setnerefid ed serotcaf selpitlºÃm nacilpxe ojulf ed amargaid la saicnerefer sairav recah :noreidup setnaidutse sol satseupser serojem nE 32 atnugerP .senem¡Ãxe sorutuf arap n³Ãicaraperp al raiug arap n³Ãicatnemilaorter al ecilitU .satelpmoc osulcni o seralpmeje satseupser o satseupser res a sodanitsed n¡Âtse oN oiclac ed senoi ed adaluclac n³Ãicartnecnoc al eyutitsus sotad ed ajoh al ed otcerroc rolav le noc oiclac ed odixordih le arap psK n³Ãiserpxe al ribircse b etrap y a etrap ed sotad odnazilitu oiclac ed senoi ed n³Ãicartnecnoc al raluclac sodad serolav sol ed n³Ãicutitsus ,etnematcerroc aÃgrene ed nemulov ed n³Ãicartnecnoc = seranul ed oremºÂn le razilitu setnanoiccaer sol ed seranul ed n³Ãicaler al reartxe y adarbiliuqe acimÃuq n³Ãicauce anu ribircse ocig³Âl ojabart etnemaralc rartsom :noreidup setnaidutse sol ,satseupser serojem nE 33 n³ÂitseuC .oneg³Ârdih ed somot¡Ã sol sodot neneitnoc euq satelpmoc selarutcurtse salumr³Âf odnajubid senoiccaer ed aicneuces al odneiugis etnemacig³Âl setnerefid sarutcurtse ocnic a-Âbah euq ay odadiuc s¡Âm noc atnugerp al odneyel sotcerroc sonob y somot¡Ã noc sacin¡Ágro sarutcurtse rajubid om³Âc odneibas suballyS le omoc sacin¡Ágro senoiccaer sal rednetne :nerojem setnaidutse sol euq arap saerA .31-C etneucerfni opot³Âsi al ed aes euq se elbaborp omoc ocip ese racilpxe y)erdap n³Âi le omoc(54 ne ocip o±Âeuqep le rarongi onaporp ed ralucelom asam al noc otse ranoicaler y 44 ne serdap sol ed senoi ed ocip le racifitnedi etnematcerroc acimÃuq alumr³Âf al ribircse y onilacla le rarbmon :noreidup setnaidutse sol ,satseupser serojem nE 12 n³ÂitseuC .reiletahC eL ed oipicnirP le odnasu lacitamehtam nevig eht htiw egagne dna daer :ot elba erew stneduts sesnopser retteb nI 53 noitseuQ .ecneuqes lacigol a ni nettirw ylraelc era sesnopser taht gnirusne ÃyroehT noisilloC rep sa sesir erutarepmet nehw noitcaer muirbiliuqe na ni srucco tahw fo gnidnatsrednu peed a gnitartsnomed setats lla Gnidulcni :evorpmi ot strandures rof saera .Eggar Kram Ro Kram Kram hcae htw Airetirc eht dna noitseuq hcae swohs elbat eht .dnert suoiavbo na gniwollof hpad snoluf snodard snodard snodard sno ylraelc elbat eht ni atad eht gnisusu naht rehtar ,dica fo noitnectnoc eht ot ot desu ot ot sdeen hparg tahw tahw gnidnatsrednu dna ylluferec eht hrader hrad hrad ed edi edaer ed ed edidaer ed secrof noissid rieht fo htgners ten eht ot)tneserp snanderc rebumun(htgnel NAHC Gniknil secrof noissid dna elopid-elocadi ,gnidnob negulcni fof ralucelodni epyt hcae fo ygolonimret tcerroc gnidivorp secrof ralucelomretni dna artni neewteb ecnereffid eht gnidnatsrednu :ni evorpmi ot stneduts rof saerA .stnemnorivne C dna H ot ti knil ylraelc ot erutcurts eht gnitatonna)negortin(N ekil dekool H dna ,O eht esolcne ton did stneduts sa C nobrac ekil dekool yltneuqerf O negyxo ge selucelom cinagro gniward nehw gnitirwdnah htiw erac retaerg gnikat suballys eht ni detsil spuorg lanoitcnuf tnereffid eht htiw selucelom cinagro ward ot woh gninrael :ni evorpmi ot stneduts rof saerA .H ÃÂÃ¢ dna)q (yrene ,)n(Selom Fo Rebune ecneuqes Noituros Eht Fo Yicapac Taeh CIPIPS EHT HONK NOULOS NOTULOS FO SSAM ETULAC RETNENM LACIDOHTEM TARS LATEBER STEUQSER STEUQER STEUQSER Gnisarcni in the tsylatac FO Noitcnuf eht nalpxe tropsnart ro/dna stnegaer fo ytilissecca FO smret , In the part of the question, write a constant expression of equilibrium and carefully replace the calculated concentrations that show for all steps, including all the ã numã © ricos. Ã Reas for students to improve: draw clearly inside the boxes provided, making sure that H does not look like n and that the lines of the Piz will be erased completely if they are then changed to the construction structure diagrams of ink for amines, including the units in your response. Sample responses can also be developed and included in the guidelines to ensure that the questions evaluate a student's knowledge and skills, and guide the supervisor to mark about the expected nature and scope of a student's response. Relational resources Quysics 2021 HSC Exam Pack Chemistry 2019 HSC Exam Pack Copied Complementary Content Question 32 In better answers students could: relate the molecular structure (polar/non -polar) with the types of intermolecular force generated by the name correctly each intermolecular force that is Apply to each one with each the molecular type classifies the force of intermolecular attraction forces to compare the compounds that the ebullició point clearly describes the relationship between intermolecular forces and their cumulative effect at the point of ebullicion In the table ensures that the differences explained are in line with the point of ebullicion of the molecules. Question 31 In better answers, students could: Describe a step to solve the initial amount of silver ion (AG +) in a given solution describe a step to solve the amount of Tiocianate ion (SCN- (mol) reacting with the silver ion during the I delineate a step to subtract the silver-reaction ion with the known initial silver ion tisocyanate (Ag+) bounce a step to find the ion chloride concentration (cl-) to outline a step to change mol L-1 in mg l-1â or a step.snoina .snoina dna snoitac gnitset fo serudecorp fo ecneuqes a eniltuo ot trahc gnissecorp wolf a esu noitac thgir eht ot emalf eht fo ruoloc eht hctam yletairporppa ot stset emalf esu snoina dna snoitac yfitnedi ot snoitcaer noitatipicerp ylppa snoitcaer noitatipicerp fo stluser eht edivorp yletarucca stset emalf fo stluser eht edivorp yletarucca snoina dna snoitac gnitset rof serudecorp elbatius emos eniltuo yllacigol :ot elba erew stneduts sesnopser retteb nI 22 noitseuQ .sesnopser retteb fo seitilauq eht fo weivrevo na sedulcni kcabdeeF .snoitartit esab/dica ni srotacidni fo esu eht fo gnidnatsrednu na evah snoitartit ni stniop dne/ecnelaviuqe dnatsrednu stnemetats ekam tsuj ton ,stluser elbailernu dna etaruccani rof snosaer eht fo snoitanalpxe hguoroht dna luferac edivorp snoitartit ni rotacidni tcerrocni na dna dradnats yramirp a sa HOaN fo esu tcerrocni eht fo ecnatropmi eht esilaer rewsna na gnitpmetta erofeb lairetam SUPUTS Htiw Egagne :ot Elba Erew STNEUTS SESNOPSER RETTE b 82 Noitseuq .Stu Terroc Htiw gnikrow lla wohs desu noitpmussa eht nialpxe ylraelc elbat eht tneserp enhant edulcni snoitcaer vokinvokraM -itna dna vokinvokraM eht neewteb ecnereffid eht esingocer siht morf serutcurts 4 rehto eht ecuded neht dna lohocla yraitret a saw A erutcurts taht yfitnedi :ot elba erew stneduts sesnopser retteb nI 92 noitseuQ .)marg ro gm(ssam otni edirolhc fo elom Eht Gngnahc

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