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## THECOLLEGIAN.

With this number. the "Collegian" enters upon the seeond year of its existence. While we have not received all the help we have a right to expect, we are glad to report ourselves financially solvent. With a little more encouragement from our pupils, parents and friends, we shall be in a position to improve the magazine in many ways.

We have many photograpiss, of great interest to New. foumdlanders, in general, and Methodists in particular, which are available for reproduction, ia the Magazine, only, it costs money to get the necessary lucks ete, made.

It is pleasant to louk back on the past year, and know that it has been the most prosperous in the annals of the College. Our phenomenal success in the year's cxaminations, especially in those which really mean "Higher Education" has made our pupils proud of their school, and our Methodists proud of their College. The burden of debt is very discouraging; but it is the only discouraging feature comected with our Institution.

Even financially last year was a prosperous one. Our receipts for fees were considerably in excess of those received for any previous year.

The great Empire of which we form a part can also look back on a year of prosperity, and is looking forward to one
of still greater. $A$ widely read newspaper, which speaks chiefly to working men, says:-
"Summing up the possibilities of the outlook we reiterate that, given a contimuance of European peace, 1897 is likely tu be very memorable. Fields for trade have been vastly multiplied and extended; the wealth of the country is greater than ever it was; every class of the community has had its comforts and luxuries increased, and rich and poor children are now educated for the duty of life with equal care. The people, never before entrusted with so much political power, were never so fit to wield it ; art and literature minister to our intellectual wants as they never did in the past. Every possibility of progress and happiness is ours at the commencement of this New Year; whose end, when it arrives, may, we trust, see us, as a people, purer, happier, and nobler, through a right and liberal use of the opportunities afforded."

We sincerely hope that, at least, the concluding wish of this writer may be realized in our own country.

We shall continue to print items of use to our teachers. Anything we have to say to them of general interest, we shall say through this Magazine, and we hope that they will be able to send us something that may be useful to their fellow-teachers. Send your subscriptions for this year to Rev. M. Fenwick.- 50 cents. Send stamps if you like. Some information for teachers especially will be found on another page.

The Principal's course of Lectures, postponed from the Fall, duly commenced on Jan. 14th, about 50 students are in attendance, and their regularity. in spite of many attractious, and their studious attention, show that they are determined to learn.

The first lecture ran over general groum being a deseription of apparatus used-the daily work of a lahoratory;
apparatus for separating, drying, fusing, igniting, dissolving etc., furnaces for ameible and enpelling winh, weighing and measuring.

The second lecture dealt with hydrogen. The gas was made ly two or thee methods, and its properties described and illustrated by experiments.

The third lecture commence the study of Iron. Probably some may ask on what system Iron follows Hydrogen in chemical study. We may say that our lectures are not systematic, but desultory. Our 50 students include all sorts, and we want to add to the knowledge of all. Iron was treated qualitatively, i. e. experiments were shown to show the characteristic behaviour of Iron in the presence of varying circumstances, and when in the presence of various reagents. In preparation for the quantitative assay of Iron, much stress was laid on the understanding of methods of reduction and oxidation. Iron therefore was reduced from the ferric to the ferrous state by means of nascent hydrogen. It was then shown that in sulphocyauide of potassium we have a chemical which will distinguish these two forms : for with ferriciron it gives a bloodred colouration, while with ferrous iron it has no such effect.

The fourth lecture dealt with the actual analysis of an Iron ore. Two methods were illustrated, a gravimetric and a volumetric one. The former depended on the fact that lron is precipitated by Ammonia, and can finally be estimated as ferric oxide. The volumetric process depended on the fact the Iron, in the ferrous state, is oxidized by permanganate of potash, the quantity of permanganate used being proportional to the amount of Iron present.

The fifth lecture was on Copper. It was examined as to its behaviour with the various acids. and also with other metals. Several tests were applied and explained.

Some of the Chemistry class no doubt consider such names as permanganate of potassium, ferrocyanide of potassium, ctc., as difficulties in the pursuit of chemical knowledge. What would they say to studying the properties of the following six chemicals?-

Carboxethylorthoamidoparatoluylamide,nitrometameihylorthouramidobenzoyl, amidometamethylorthouramidobenzoyl, dinitrometamothylorthouramidobenzoyl, diamidometamethylorthouramidobenzoyl, and the diacetyl derivative of diamidometamethylorthouramidobenzoyl.

Lecture 6 was on Oxygen. Oxygen was generated on a large scale and stored for after experiment, some in a large bag, and some in the metal cistern of the pneumatic trongh. Priestley's original experiment with oxide of mercury was repeated and explained. To illustrate the characteristic properties of Oxygen in the pure state, many jars of the gas were examined. The principle of the Lime-light was explained, and the Laboratory was flooded with its bright rays. By means of an electric current, water was decomposed into Hydrogen and Oxygen. The graduated test tubes which received the separated gases showed ciearly the volume-composition of water :-two vols. of Hydrogen to one of Oxygen. To show how strong is the affinity of these gases for each other, we filled a common Florence oil-flask with the gases in the above proportions. An electric current was then passed through a bit of thin platinum wire contained in the flask. The loud explosion which followed was surprising, when the small volume of the mixed gas is remembered. Oxidation was explained by experiments on the combustion (oxidation) ol Magnesium, Carbon, etc.

A noted toper, who was once present at some experiments on water,-similar to ours, was so impressed with them, that he said-" well, I never knew that water was so dangerous, I'll never tonch another drop."

In consequence of some enquiries addressed to us from an outport, we made enquiry of the Govermment as to the
possibility of the London Matriculation Examination being held in January, as well as June. The Govermment went: to considerable trouble in the matter, and has sent us the correspondence on the subject between our government, Mr. Chamberlain, and the University authorities. From these we may announce with authority, that the Examination can be held here any January or any June, or both, provided due notice be given to the University authorities. They ask three months' notice from the Colonies.

We have just given notice to the Government that we are presenting two candidates at the Matriculation Examination, next June. We cannot expect to send in enght candidates every year. Forbes and Atkinson have a heavy responsibility on their shoulders, and a good name to keep up. We believe they are equal to it.

## RECENT EXAMINATIONS.

At the recent examinations, the below obtained the "First Ten" places in each of the various classes.

They are placed in order of merit.

## MR. HOLLOWAY'S CLASSES.

Geometry. Maximum. 85.
(R Hatcher95,
II Blateh 95 , II Perry ${ }^{95}$, V Macpherson 25, II Rodger ${ }^{3}$,

> W Simpson 93, IF Syme 05 , m Butt 9n, $\left\{\begin{array}{c}\text { C White } \\ \text { D } \\ \text { Do }\end{array}\right.$ \& D Dove 7 S,

> Elect. \& Mag. Chaplin If,


GENERAL EXAMINATION.
Literature, "L'Allegro." Maximum 213.

Frew Robert 209, Simpson W: Mickinson E 2 05 , Dove Jililie ent,

Woods Julia 200,
Payne Mabel 19s, Stick May 106,
(Macpherson V 193, \{ Mc:Lutuchlan A 192. \{Squires Anderson i6?

## MR. HILLYARD'S CLASSES.

## E. History,-Jr.

Atwill F,
Tucker.
flerder A,
Sutherqreen $S$,
Green H,
Ayre H .
Gaze l:,
Chaplin L.
Percy Walter,
Youncr H,
B.keeping,-Sr.

Frew 12.

1 Syme F
Blateh II.
liatcher R,
Syme (
White ©
Perry M.
collins W.
King A,
MeNeilly J.
French,--Jr.
(ireen H .
Knight is.
Collins w.

Paine C. Ruxton W, Story II,

## Latin,-Jr.

S Melida Bowdridge, Maggie James, Fmmat drain, Millicen: Woods Eva Macpherson, Gertie Kendall, 13 Scuires, If (ireen, EClarke Mabel loote

## MR. WHITEWAY'S CLASSES.

## Latin.

Simpson W,
Hill C, Squires A. Pincock F. Ciblins W. Pike C,

Platch IIE, White C. Bishop k ,

## French.

IIerder A,
Ayre 1I,
Biair K .

Bishop R. Chancey H . Hill C. Syme G. Alwill F . Tait A, Suthergreen S,

MISS ALLISON'S C_ASSES.
Book-keeping,-Senior.

Mav Stick
Wilhelmina Campben. Francis Blair.
Masure Tames. Emma Ash.
Emina Adrain.
Fua Macpherson, 9.
Mehda Bowdridge, 93
Aliec Soper, Sl
$\left.\begin{array}{l}\text { Slabel Payn } \\ \text { Bessie Injpen }\end{array}\right\}$-s
Arithmetic,-Jr.
Mлхाмing, 105.
Fisic liviloways.j. Ey. Macpherson is, $\{$ Winnie Gould 6 t.
Gertie Kendall 0 .
Mabel Fonte 60,

S Elsic English \%\%,
1 Millicent Woods 55
Emma Lorway 10.
Mollie Morison 32,
Ida McRac 30,
Arithmetic,-Sr.
Magrie James 0 ,
Melida Bowdridge 90,
Tulia Nosemorthy 75, S Alice Soper 60 .
, 1)orcas (rocker (i0,
Emmal ish $5 \bar{j}$,
PMay Sick
Minnie: Campbell 4.5
EEmma ddrain
IMerida littman
Geography,-Jr. \& Sr.
Tulia Woods.
Melida Bowdridge,

Emmaish, Mabel Payn, Emma Adrain, Maggic James, Evelyn Boone, Julia Nose worthy, Millicent Woods, \{ Fiora Piluman, \{ IImie Campbell, Juniors.
Maximum. 100. Millicent Woods lom, dabel Foote 95. Elsie Holloway 90 , Tulia Woods s9, Mollie Morisons.j, Elsie Engrish so Gertie Kiendall 70, Winnie (iould 6 : Smma Lorway 6 ,

## FRENCH EXAMINATION.

Maximum, 40
M Fonte 410.
M BOwdridge 414. F. Macpherson 110 .
$\left\lvert\, \begin{aligned} & \text { A Mews 395, } \\ & \text { J Hill 397, } \\ & \text { E Adrain 394, }\end{aligned}\right.$

Geography.
FFrew, N'Tuck, W Inkpen, M chaplin, B Martin, a Bathour,

F Frew, M (illes. at Alwill, , Miller, M Strong. EMenderson, J Henderson.

## MISS TAYLOR'S CLASSES.

British History,
Milier A. Jatdine E : Churehillt, Bemister M, March l'lucker I'。

## layn 民, Peach L, Noseworthy F, Milley E ,

Domestic Economy. Bemister M, (iiles,

March F , Noseworthy E, Jardine E, Hill 3 , Churehill 1. Piyn E, Miller $A$. Sanwalys I.

## HOWLERS.

Gfographis.
How are Buda and Pesth comnected?-By a hyphen.
From what countries in Europe do we get wool?-(1) Woolwich, (2) Sheep.

Describe the position of Bristol ?-Almost round.
An insular climate is a piece of land with plenty of seacoast.

A meridian is a man who lives in Spain.
The Equator is a line running through the hottest part of the earth. It is a long time going round the earth.

Woolwich is noted for the manufacture of arsenic.
A Geyser is a talkative old woman.
The Armenians are a true Christian people who spend their lives wandering about the mountains.

An archibillygoat is the chief goat found on the Alps,and from his milk is made a kind of cheese, much relished by the French novelist Zola, and hence its name, Bonbonzola.

Plymouth is a naval arsenal in Southampton.
An Antarctic Circle is a circle that is not round.
It is a question whether Elbur\% is in Europe or not. It is supposed to be in the S. T. of Turkey.

The earth is not a perfect round because they sing in church about " the corners of the earth."

A volcano is a big mountain with a hole at the top and a fireplace at the bottom.

Adam's Bridge is one of the two passes across the Himalaya from India to Mongolia built by Adam.

A mountain is a piece of land jutting up into the air.

## COLLEGE FEES.

There are 3 I'erms in the year.
The fees are from $\$ 2$ to $\$ 6$ per term, and include all subjects except Music and Jrawing.
All Books are provided.
Uusie, I'inum $\$ 10$ per school term.
Oryan $\$ 12.50$ " " "
Drawiny omly, $\$ 1.50$ per term.
Drawint; und Paintings $\$ 5.00$ per term.
Kindergarten, $\$ 2.00$ per term.
Use of T?pewriter \$1 per term.
THE HOME.
For ordinary boarders $\$ 16$ bi. 00 for cach year divided into threc, ciz., from September to December: January to April; April to July; this amount includes board, washing, text books, College fees, seat rents in charch; payment of the term charges is required strictly in advance.

A discount of ten per cent is allowed in cases where there are two or more from one family.

A private bed-room may be hal on payment of ten dollars extra per term.

Pupils can enter at any time, but, if possible should do so at the beginning of the term.

The Home affords exceptianal facilitics for the proper oversight und lruining of gounts peopple of both sexes in pursuit of a gond celucation. It is heated throughout with hot water, and has been fitted with all the hyyicnic appliances to secure the health and comfort of its an mates.

The Dormitories are lefty and well ventilatel, whice the study rooms are adapted to secure success/ul preparation of home lessons.

Special a.ttention is given to the spiritual and moral as well as mental training and gencral deportment.

A separate bod is provided fir euch pupil unless it is otherwise ordered.

## HOWLERS!

We select the following specimens of Howlers from the magazine published by the Examiners employed by the Council of Higher Education.

## History.

The Treaty of Troyes was a treaty between Richard II. and the French King who had tried to invade England while he was in Germany. It ended the Seven Years' War.
1165. Henry II. invaded France and defeated the Scotch at Ceirsk in Dembyshire.

Who was Cardinal Wolsey? A flat-bottomed boat built in the reign of Henry VIIL., and runs from Richmond to Hampton Court every day.

The King of Bohemia's trade-mark was three ostrich feathers.

Lord Seymour, after the death of his wife, sent his address to the Princess Elizabeth.

The Black Prince came to the throne when a boy of fourteen. He died in 1413; he had a complaint which was usually called the Biack Death.

The Feudal System was: At the sound of the trumpet the squaws called out the farmers, and the farmers the pheasants from their cottages.

Robert Bruce was a monster of cruelty who spent his spare time stabbing spiders. He died a horrible death, being eaten up by worms.

Mary, Queen of Scots, married to the Dauphin of France who survived his death only two years. She went to Scotland, but was forced to abdicate, so she threw herself upon her consin, Queen Elizabeth.

The Salic law forbade female descendants.
An account of Magna Charta: John brought Magna Charta from the Wash. It is said that no man should be ontlawed or dispossessed except by his own consent, and that justice should not be bought, denied, or mislaid. As John did not do this, his brains were scattered on the altar of the church.

Robert Mowbray was a Yorkshireman who made pork pies.

The Jutes were men with thick skins like the bark of trees who used to make coarse mats.

Julins C'esar first landed on the Siandwich Islands b.c. 55. The chiof that opposed him was the Standard Bearer of the Tenth Legion. The first time he stayed twenty-five days, the second three or four centuries. When he went back, he did not come again for more tham a handred years.

The religion of the ancient Britains were pageants
Our relations with Scotland in Henry IV.'s reignCousins.

The Habeas Corpus Act was passed $1, y$ King John after drowning his nephews in the surf of lampreys, so that he could be got out of prison if he was caught for murder. It has also been called the Magna Charta of the Reformation.

Alfred the Great was the first man who ever learnt to read.

The Anglo-Saxon Chronicle was written by Adam Bede.

## French.

A French girl's English letter concludus: "My love to everybody and topcoat (surtout) to Papa."

Un des favoris du roi etait la.-One of the King's whiskers was there.
La toge Romaine.-His romantic trousers (togs?).
Je frappe, la sentinelle ouvre.-I knock the sentinel over.

Des autels, dresses a la hate pour loffice divin.-The others dressed in haste for divine service.

Il releva les blesses dans ses bras.-He relieved the blessed of their brass.
les bandes de pelerins.-The bands of peelers, that is, the police bands that play in the parks.

Mes doux vers.-My two worms.
Beaux enfants gates.-Pretty dirty children.
Sa levre inferieure, a moitie arrachee, laissait voir ses crocs dechansses.-His lower lip, half torn away, let see his barefoot teeth.

An lectemr.- At the lecture.
Les voila. -'lhe violets.
Lee phames du hibou sont belles.- The pens of the owls are bells.

## Englisif Literature.

Sir Walter Sooth was horn in the early part of the seventeenth century, heheaded by Henry TIIL., 1519, and wrote Shakespeare.

Hamlet showed his affectionate character when he promised Kecuba he would marry her, or even when he didn't take the king's life before he did.
W. Scott wrote a comic history of his grandfather and the demons, and other lying books called novels. He often went by the name of the Blizzard of the North, but Shakespeare called him the we sel Scott, perhaps through jealousy.

## (To be continued.)

## REPORTS OF EXAMINERS

On the Subject of Arithmetic for the Years 1894-5-6.
SENIOR,-1894.

The number of papers examined was one hundred. The work on the whole, was distinctly weak. Only one candidate did an excellent paper. The remarks on style in the Junior report apply to very much of the work in this grade also. Only seventy-two per cent. of the candidates passed.
JUNIOR,-1894.

Fine hundred and sixty-four sets of answers to this paper were examined. As might be expected in such a number, the papers vary in value from utterly worthless to excellent; one candidate obtaining 484 marks out of the possible 500, and one obtaining 0 marks.

Eighty-one per cent of the candidates passed.
By far, the greatest weakness was shown in dealing with fractions and compound proportion. Many candidates proved themselves quite ignorant of decimals.

When doing short division by two stages a large number of candidates showed themselves incapable of dealing correctly with the second remainder. Whilst a few of the best papers reflect the greatest credit upon both scholars and teachers, yet the extremely loose way in which much of the work (questions on fractions esjecially) is put down, deserves censure. Teachers and scholars cannot too clearly bear in mind that Arithnctic is a branch of the greatest and most exact of all sciences, and that every figure, used in the solution of a problem, bears a definite relation to other figures, which relation should be shown distinctly by a correct use of the symbols aud rules used by mathematicians.

## SENIOR,-1895.

The work in Senior Arithmetic was distinctly good, especially the examples involving the higher parts of the subject. Very few were able to state clearly the rules for finding the L. C. M., and most candidates found it necessary to apply Algebra to the solution of the problem.
JUNIOR,-1895.

Tur Junior Arithmetic was badly done on the whole. It was very inaccurate, and no attempt was made at setting out the solutions to the questions in a clear and straightforward manner. In some cases, indeed, the working was merely scribbled in pencil, and the answers written on a separate page.

## SENIOR,-1896.

Tue papers on the whole were very satisfactory; the methods employed were good, and there were unusually few cases of inaceuracy. A large proportion solved the more difficult questions correctly, and answers as to method were good, but too wordy. Attention must be drawn to the lack of neatness and clearness in setting down work. Six candidates obtained full marks.

## JUNIOR,-1896.

This year the papers have, on the whoie, been answered well. The most commendable features are the number of
correct results, and the clearness (though not neatness) of the figuring. Too often, however, the candidates possess mere rote knowledge of methods, e.g. even when following the rules a slip in multiplication often led to an interest of several hundred pounds on the principal of $£ 7215 \mathrm{~s}$. Od. in the 5 th sum. Few students knew how to divide by 100. 'There was far too much rough work; the pupils should be exercised in mental arithmetic.

## CONCERNING EXAMINATIONS.

I' is, in these days, no use railing againstexaminations in general. It is the easiest thing in the world to do, because there are certain weak points about them which are generally recognized and which it is se easy to emphasize and exaggerate. Yet while these evils are well known, examinations are increasing everywhere, and are creeping into departments where they were formerly unknown. In England, for instance, do you want to enter the Army, Navy, Civil Service, Law, etc., you must undergo examincution. Girls seeking for employment in the Post Officc,etc., must sit at a competitive examination. Quite lately, the English Universities have added a preliminary examination to those already established, for children of quite elementary standing, and thousands have taken advantage of it.

Our young men of ability who want to make for themselves a position whether as Ministers, Doctors, Lawyers, Teachers etc., must be ready to submit their knowledge and intelligence to be tested, -in other words they must be examined.

There must, and will be examinations. How then to avoid their evils?

Clever pupils must not receive more than the share of attention at the expense of less elever ones. Surely, good teachers and watchful parents can sufficientiy prevent this.

Pupils must not be selected, for examination, so as to get high percentages of passing.

Overtime must be discouraged.

Examiners must he carefully selected who will set amb mark papers in such a way as to cheourage those qualities most desimate in a pupil.

The (6uncil of Higher Education hate come into existrence th arrage for and conduct such examinations as shall do the most gool, and the lpast harm. Bummons gool, edueationally, has, during the past three years been the result of their labours.

A well-known puiblic man of Englamb, said "you may ohject to examinations, ami I remgnize their weak point: ; but, I may say, that I owe my intimate knowledge of Shakespeare, Milton, spenser and the rest, in the first instance to them, and many men owe the only accurate knowledge they have on any subject to the same much-maligno.! cause."

## TO TEACHERS.

The Calendar of the Commel of Higher Elacation is now out. Prohably, copies have been sent to the teachers in the outports; we have only one coply, and that is marked price 20 cents. This calendar comatans muth valubble information, such as:-

Complete lists, in order of merit, of those who passed in the June '96 Examination.

Jists of Honours,-by numbers only.
Copies of all the Examination japers.
Reports of Examiners.
Of these, we think the Honours lists in their present form are almost useless. If they are to be of any value or interest the names mast be published. One of the greatest incentives to excellent work is to he found in seeing one's name figuring in such lists.

The copies of Examination papers, and the Fxaminers' reports ought to be most useful. Especially will it repry both teachers and pupils to study these reporus. They explain not only how to get high marks, but how an examimtion japer ought to be written, so that it may ser;e as a
rriterion of the knowhedre, and an pe paticularly the intelligence of the writer.

Trachers will remember that for any information as to the Examination, aphliation must be made to the Registrar. In his printed list of duties, we find the following:--" He shall condurt the correspomdence of the Council, and shall either fully answer or acknowledge every communication by return mail."

If you want the full list of any pupil's cxamination marks, yon must send 10 cents with your letter of application.

In prepraring your pupils for examination, it is not sulficient to put a certain amount of information into them, it is of equal importance to teach them how to make use of what they know. Modern Examiners do not, for instance, simply want to know the answer to an arithmetical problem. They want to be able to trace the method of reasoning by which the pupil arrives at that answer. It is our opinion that more marks are given for method of putting down, than for correctanswering. It is for this reason, that the "Enitary method" ol working is to be preferred in all cases where it is applicable :- Proportion, Simple and Comfound, Percentages of all kinds, such as Stock and Shares, Exchange, Commission, Duties, etc., etc., into Division, Proportional parts, etc.

On page 15 will be found what the Examiners have said concerning the drithmetic papers of the past three years.

We are glad to note that Pouch Cove School is doing good work. Miss Adia Forwoorl is sending in cight pupils for the Examinations in May. Mr. Atkinson always pushes Elacational matters, wherever he is stationed. We shall be glad of other items of interest from teachers.

Note also that the last day for adding members to Examining Committees is April 19 th.

Information as to Teacher's grades must be sought, not from the Registrar of the Council of IIigher Education, but from the Secretary of the Eoard of Examiners (Mr. Holloway).

The scheme drawn uy by this latter Board has now been twice published in the Collegian, once in September, and once in December. This scheme is not retrospect; it refers to the future. It would not do to pick out any one part of it to the exclusion of the rest. For instance, the percentage of marks now required is considerably lower than it originally was. On the other hand, one language-Latin or French-is now compulsory for list grade ; so that matters are somewhat equalized. Now a candidate who came below the percentage reçuired last year, finds that the mark then obtained is higher than that now required. He wishes to know if that does not let him through. But he forgets that the mark is lower because extra subjects are now required, and that he has not qualified himself in these extia subjects. Hence the scheme is necessarily not retrospective.

## CONSIDEK THE EXAMINER.

It pays to consider the Examiner. Save him trouble if you can. Write neatly and arrange your answers so that he may quickly grasp your meaning. The best paper is the easiest to examine. Besides, the same careful arrangement that pleases the examiner is also the best mental exercise for yourself. It shows that what you know is intelligently arranged in your mind, and is ready for use at short notice. We can imagine how an examiner must tear his hair when he comes to a paper by, say G. S. or A. I. and some others. Even after he has discovered what language it is written in, there is much anxious deciphering necessary. Un the other hand papers like I. H's, M. P's, etc. prepossess the Examiner in the writers' favor. But perhaps you object that the object of education is not to please examiners; true, -but fortunateiy what pleases them, pleases parents, and fleases employers, and shows that the writer possesses not only knowledge, but qualitios of at least equal value.

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| CALICOES | CURTAINS LADIES' UNDRWEAR |
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