The exercises commemorative of Washington's birthday were highly enjoyed by students and faculty. The session commenced with a prison parade, which was enthusiastically received by Governor Gardner, pleased in all the address given. It was an opportune time for the appreciation of the attributes of Washington. The greatest contribution of our great leaders, he said, was the character. "It is his character which secures his position unchallenged as first in the hearts of his countrymen, and first among Americans in the veneration of mankind."

The program arranged by a committee of the students consisted of the following:

 Invocation Rev. Clarence Swift
 Address—Life and Services of Washington Washington's Birthday Exercises. 
 Keller's American Hymn Choir
 Address—Life and Services of Washington Washington's Birthday Exercises. 
 Transmission of Tuberculosis by Means of Infected Milk.

By request, Dr. Grange went to Michigan weeks before last to explain the tuberculin test to Congressman S. M. Stevenson's dairy herd. He was seen after his return last week and reported an appalling condition of affairs. The herd tested contained 47 head of cattle, mostly Holsteins, and the test resulted in typical reactions, diagnosing tuberculosis, in 39 animals, the largest percentage on record in a herd of any considerable size. These animals were slaughtered, and the existence of lesions caused by tuberculosis was reported in every instance. One cow was sick in a manner that the test could not be applied in a proper manner; but, at the request of the owner, this animal was killed and a post mortem held upon her by Dr. Grange. The presence of the disease was well marked.

The most distressing circumstance in connection with this investigation is that the disorder seems to have invaded the family of one of the owners.

About a month ago one of the cows took sick and died. A post mortem showed the presence of a disease which the owner suspected was tuberculosis. Up to this time his children had been using milk freely, and the disease had been going in with the rest. The milk supply was at once cut off, but not until four of his later developments seem to indicate.

One morning it was discovered that the little daughter could not open one of her eyes and was red and inflamed. She was sent for consultation with one of the most eminent physicians of that city, who diagnosed the state of the little one. After examining the tumor for two days he discovered the germ of tuberculosis. A tumor was also taken from the breast, but no evidence of the disease could be found. Owing to the age of the little girl, a patient was thought to be a better course. Her brother has also been taken to Chicago and will have the tuberculin test applied to see if the presence of the disease can be detected. This is probably the initial step in the application of the tuberculin test to the family.

The citizens of Menominee, a large number of whom have been using milk from the infected herd, are very much excited by the recent developments. A special meeting of the city council was held last Tuesday afternoon to consider the ordinance regarding the application of the tuberculin test to every cow furnishing milk for the city trade; and there is no doubt that such an ordinance will be passed.

New Members of the State Board of Agriculture—Arthur C. Bird.

When Governor Page swore in Arthur C. Bird to a position on the State Board of Agriculture, he gave recognition not only to the sterling worth of one of our most progressive and successful young farmers, but also to a leader in the work of cultivating and educating the tillers of the soil. Mr. Bird has for years been an earnest worker in the Farmers' Clubs, was the impetus which caused the Farmers' Club movement. It was at his suggestion that the State Association of Farmers' Clubs was organized two years ago, and as its first secretary and second president and its department editor in the Michigan Farmer has been the prominent and guiding spirit in its growth.

Arthur C. Bird was born at High­land, Mich., May 22, 1864, where he attended the district school until, at the age of fifteen, he entered the Agricultural College. At the age of nineteen he graduated with the class of '83, and of the thirty to graduate in that first class Mr. Bird was the best in scholarship. By his own exertions he very nearly paid the expenses of his college course, and he now thinks that the test, instead of being a burden upon him to graduate had it not been for the liberat support system. "Of one thing I am certain," he remarks, "that the best advice derived from my college course has been by far the greatest factor in the little success I have since worked out."

The fall after graduating Mr. Bird bought 130 acres of the farm of 276 acres which he now owns. Here he has lived ever since, giving his chief energies to the management of his farm, thoroughly and conscientiously, and to this work he expects to devote himself always. In the fall of 1892, in recognition of his success, he was appointed to the State Board of Agriculture conferred upon him, the first alumni of the College to receive this distinction, which marks the degree of Bachelor of Agriculture. In addition to his farm property at Highland, Mr. Bird is interested in the Michigan Farmers' Bulletin, the Michigan Farmer and other weeklies, and has never been without a daily paper.

Mrs. Bird is an endfront in music, and every day at some time to do something in that line to make home happy. Both spend a great deal of time in study, rarely letting a day pass without some good work among their books; but both work also at the daily routine of farm labor, Mr. Bird upon the farm in active work and Mrs. Bird in the kitchen and in the general care of the home.

I cannot close this sketch more fittingly than by giving Mr. Bird's own words to the writer: "We are simply trying to solve the problem of making our place of business a success, yet never for a moment forgetting that there is a better element in true living which must not be neglected, even temporarily. The greater share of the property we possess we have had the pleasure of earning ourselves."

Some Causes of Crime.

A large audience assembled in the church last Friday evening to hear the lecture by Bishop Gillespie of Grand Rapids. He spoke on "Some Causes of Crime" and, in his introductory remarks, he said that there should make the use of statistics. He did not fully believe the assertion that figures do not lie; remarking, somewhat facetiously, "There are black lies, white lies, and statistical." He was not able to say for certain what crimes there are. The distrust of society is one thing that makes community the life of the criminal.

He thinks much improvement could be made in the management of our penal institutions, that it is unfortunate that every political revolution should result in an entire change of prison officials and that the daily papers should be put into the hands of prisoners to keep them posted in the methods of crime. The contract system in prisons allows no classification of prisoners.

The distrust of society is one thing that makes crime the life of the criminal. There is a very marked reluctance to give positions to men who have served a term in a penitentiary and to employ himself at the end of his term free to choose an honorable vocation, but honorable positions are not given him and he finds himself crowded back into crime again. Ex-President Hayes had no patience with those who would not help a man when he was trying to reform.

In closing, Bishop Gillespie empha-
sized the necessity of studying the problems of penology and pauperism. He was followed by Rev. Osborne, who very briefly supported the points advocated by the Bishop. After it, if he could suggest any better method of employing prisoners than the contract system, this is what he could not. The best place to employ them is in the prisons, and the best way yet devised is by the contract system. In whatever form it is employed, the only point which must come in competition with free labor.

At the College.

Dr. Edwards' office was newly papered last week.

The Eclectic Society enjoyed a social hop, Saturday, last week. Lieut. Bandholts has returned and is keeping bachelor's hall.

Rev. C. F. Smith gave his sermon on Romans at the College, Sunday afternoon.

The lady daughter of Dr. and Mrs. Edwards has been quite ill but is now improving.

Mr. A. L. Westcott had a finger quite badly injured in the machine shop one day last week.

Mr. and Mrs. Westcott entertained at Saturday evening, Monday evening last week.

Dr. Kedzie went to Chicago last Saturday to attend the banquet of the M. C. Alumni Association.

The mechanical department has purchased a four-wheel clock for the new Henry-Norton clock. Prof. Smith was away during the latter part of last week attending in institutions in the southern part of the state.

Miss Blanche Vaughn and Miss Lane, teachers in the Parkland high school, visited Miss Amy Vaughn, '97, Saturday.

The King's Daughters will meet with Miss Lilian Wheeler tomorrow afternoon.

Text, "Trust" head; Mrs. Holdsworth.

Those interested in bicycling have decided to purchase a "bicycle trainer," a machine for indoor practice, the cost of which will be $25.

E. A. Baker, '96, left College last Saturday to accept the position of shipper for the Michigan sugar Co., Grand Rapids.

The mechanical department has purchased a "bicycle trainer," a machine for indoor practice, the cost of which will be $25.

During a discussion of fences at an institute this winter the question was presented that we need a larger building for the department of physics and electrical engineering.

The feeding experiments being carried on by the farm department at present and valued at hundreds of dollars, which Mr. J. N. Godrich, '97, is preparing his thesis: and the feeding of potatoes and corn for hops, which is the thesis of Mr. J. F. Retfiern, '97.

Last week the farm department weighed the corn in the cribs to determine the amount of shrinkage put in the cribs the full corn was very damp but kept well. It weighed eight tons when put up and this weighing was found to have shrunk nearly one-third.

At a meeting of the Club Boarding Association last week, Messrs. H. E. Veenstra, C. C. Fannon, and Rigtener were appointed a committee to revise the constitution so as to place the management of the association in the hands of a board of directors, the object being to centralize responsibility.

Extensive improvements are being made in the experiment station chemical analysis room. All the old, rickety tables and cabinets are being replaced by other new ones of modern design which will take their place. New equipment will be added that will make it one of the best equipped rooms in the country.

Mr. C. S. Kedzie, of Rillette Creek, visited M. C. A., Saturday. He is deeply interested in the advancement of the agricultural industry. He explained what good taste the people of Michigan had, and Mr. Kedzie to your board: "I have visited many of the agricultural colleges but none of them compare with yours in beauty of location.

During six hours' labor beginning about October, 1889, the Botanical Club has presented two hundred nineteen subjects. During much of this time the club was held every Monday evening by the general students being presented at each meeting. The topics were botanical agricultural, and botanical, and in every case were illustrated by drawings or specimens or both.

The next military hop will be held by the cadets in the Armory on Friday evening, March 12. The popular price of twenty-five cents will be charged both to cadets and others. It is hoped that the officers in charge that this be made one of the best of our series and every student is urged to take part in it and make it a success. Further announcement will be made next week.

The Union Literary Society entertain ed the members of the faculty and their wives, Saturday evening. The program consisted of an oration by R. A. Robinson; a declamation, by G. N. Gould; a debate, by W. R. Kedzie and F. W. Robinson; vocal music by the society quartet; a recitation, by Paul Thayer, and a criticism by L. S. Munson. Following this came social enterta inment in the form of light refreshments of which contributed to the passing of a very pleasant evening.

Among the many specimens and photographs to be exhibited by the agricultural department at the Union Literary "up" institute at St. Louis this week, are a number of photographs of tropical agriculture and horticulture in southern Asia. Some of the most interesting ones are a group of natives building rice, a pepper plantation, a coffee, tobacco, fruit plantation, a tea plantation, a coffee plantation, and another showing the method of making coffee, a tobacco plantation, and coffee, one showing tens of Asian cattle-pleving, one of aza man palm trees, a sugar mill, one orange grove, one of a grove of California, one of wild corn 12 feet high, grown on the seed of which has been collected in Mexico. Also several series of photographs illustrating a coconut plantation, near the College; eight views of Grace College; eight views of Grace land cemetery near Chicago, a set of 14 views illustrating the condition of the wild corn of the northern Michigan belt, recently from Westford county, will be shown.

The Patent Right Man.

Various kinds of shamers are in the habit of considering the farmer their legitimate prey. Among those who may be considered the patent right man has been very active and has, in his day, done as large a business as any other. He has worked the whole country over, the common almanack, and driven cats, and driven hogs, and driven cattle, and driven horses, and driven all. He has been so often exposed that it is surprising to find him still doing business, but he is very versatile; when one industry has been got up he limit the only thing necessary is a new thing to chum a patent on and his host.

The Patent Right Man was laying away with old forms of fencing and the introduction of the wire fence has opened a new field for patent right man. The almanack is the institution which is perfectly free is extremely valuable that The agent had done work and was to be added to the patent right man. It may be staple them. The idea was so new and valuable that the agent had done quite a business in selling farm rights for his fence. It may be true as several farmers said, that it was a fence and the plan was worth the price, but the Patent Right Man remains that paying for something which is perfectly free is extremely unprofitable, and the Patent Right Man advances of other swindlers, many of whom leave nothing whatever in return for the money they receive.

M. W. F.

Senior Honors and Officers.

Last Monday evening the faculty elected as commencement centers John W. Righterink, of the Union Literary Society, as president of the senior department, and Earl H. Segwick, of the Columbian Literary Society, to represent the mechanical department. Prof. L. H. Bailey, '86, will give the commencement address.

The following day the seniors elected officers for the next term.

President, Sanford H. Fulbon, Columbian.

Vice President, William R. Goodwin, Olympic.

Secretary, Amy Vaughn, Feronian.

Treasurer, Lewis S. Munson, Union Literary.

Ootor, Elwood Shaw, Olympic.

Historian, Cass B. Laitner, Hesperian.

Prophet, Sabbe D. Champion, Feronian.

Poet, J. Dewitt McDonald, Hesperian.

Editor, Edward C. Green, Columbian.

The societies have elected the following officers for the commencement commencement for the coming year:

Columbian...Thomas A. Chittenden...Madison...Robert E. Kedzie.

Feronian...E. Pearl Kedzie...Hesperian...Albert T. Cardin...Olympian...Elwood Shaw...Pi Delta Theta...Charles F. Herrmann...Loyd W. Robinson.

These contests are for gold or silver medals offered by the College, and occur some evening of commencement week.

San Jose Scale Again.

Professor Barrows spent Thursday, the 25th, in visiting orchards in Ottawa county in search of the San Jose scale. It had been located the week previous in and near an orchard in Jamestown township, near the line between Allegan and Ottawa counties. This place was placed on Pesticide Prohibit for a month after the storm would permit, and the scale was found to be well established, having infested pear, plum, peach, cherry and apple trees. Some of the latter were old trees of large size and standing so close to other trees as to make it very difficult to remove the whole orchard may be affected. The source of the trouble was in six Barrett pear trees owned by the University and fruit from this county about six years ago. They were dug up and burned three years ago, but the scale had spread already to neighboring trees, young and old, and a second consignment of young trees from the same nursery spread the pest still further. The infested trees are still quite small and is estimated that the scale is not likely to spread to neighboring farms and orchards, but this can only be determined by a long and thorough search. Professor Barrows visited four other orchards in the same vicinity and made several examinations of the trees.
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Minutes of Board Meeting.
The State Board of Agriculture met at the College Thursday evening, February 25. All members were present.

Franklin Wells was elected president; C. J. Monroe, vice president; E. R. Butterfield, secretary; B. F. Davis, treasurer.

Friday morning the Board met with all members present. The president appointed the following committees of the Board as follows:

Finance—Garfield, Bird.

Farm Management—Marston, Bird.

Botany and Agriculture—Garfield, Monroe.

Employees—Monroe, Moore, Snyder.

College Property—Garfield, Monroe.

Institutes—Garfield, Monroe.

Mechanical—Moore, Monroe.

Veterinary—Norris, Monroe.

Land Grant—Bird, Garfield.

Experiment Station—Garfield, Monroe.

Weather Service—Monroe, Marston.

Library—Bird, Garfield.

The Board approved the draft of bill for appropriation for Farmers' Institutes, which has been approved by the executive committee of the State Grange, at the winter meeting, for two years for Farmers' Institutes.

The question of making a College coeducational was discussed. The General Exposition was left with the president of the Board and the president of the College.

The following resolution was adopted:

Resolved, That the faculty of the College is hereby requested to consider the feasibility of giving a short summer course in normal instruction along agricultural lines, adapted to the use of teachers in rural schools, and report to the Board at next meeting.

Resolved, It seems equally desirable to have the Grange call attention with the Agricultural College, and to reach the individual farmers with the results of the work done. The first of May is suggested as a date. A demonstration is to be made of some of the lesser works of his hands; but these might be distinguished from the lesser works of his hands; but these might be distinguished from those which are the product of long years of toil, sacrifice and bloodshed—governments and empires—these also have their day and then vanish from the earth. Death is alike the enemy of men and of nations.

And yet there is a brighter and more cheerful view of human history. Though the march of manhood and the progress of society have been but painfully slow and sad, and though the entire way is strewn with the works of Death, we yet find in the works of Nature, how the earth leads ever onwards, and mankind is moving slowly but surely towards better things, and because there is yet something beyond them that has been a progress, a progress forward, an advance upward—and so strong and sure that there is a certainty that in some distant future the world will be one great fertile garden. Not until then, however, can we hope to answer this question, then, if we are saving true.

The analysis is as follows:

1. The sample must be taken at the time of the first flush of the leaves of the plant. The losses must be an appreciable one, and which is therefore applicable to the results. The dealer spoken of at the State Fertilizer Inspection, one of the most healthy growth. Rome, the home of the Ancient Romans, is a city of which we are the heirs.

No, I don't sell fertilizers any more. I ceased handling fertilizers. Their brand that he manufactures to the public that in its judgment the Experiment Station should do as much of this work as is required to perform the detail duties of the office. There is so much similarity in the work that an inspector is sent out by the Exposition was left with the president of the College Thursday evening, February 25. All members were present.

H. Butterfield, secretary; B. F. Davis, treasurer.

Institutes—Monroe, Garfield.

Veterinary—Bird, Marston.

Experiment Station—Garfield, Moore.

College.

Resolved, That the advertising committee to arrange for the forty-ninth annual report of the opening of the College in 1857.

The committee on experiment station, to whom was referred so much of the subject of the non-existent experiment station, in succession and not find a better model. Fortunately the above was the only example found in the work of the subject of the non-existent experiment station, in succession and not find a better model. Fortunately the above was the only example found in the work of the subject of the non-existent experiment station, in succession and not find a better model. Fortunately the above was the only example found in the work of the subject of the non-existent experiment station, in succession and not find a better model. Fortunately the above was the only example found in the work of the subject of the non-existent experiment station, in succession and not find a better model. Fortunately the above was the only example found in the work of the subject of the non-existent experiment station, in succession and not find a better model. 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after the second Punic war, when it 
became obvious for the men of Italy to 
live not by the sweat of their own 
leaves but by the sweat of other men's 
leaves. They were a mercantile, trading 
people. Not until their thirsty peasantry had 
become an idle city throng, were the seeds 
of corruption sown among those 
who were to rule the downstems. You will 
find that their everhand in hand with 
true progress. "Thrift," says Carlyle, "is 
the eighth of great virtues. It inspires 
courage, and a great people. The Dutch, 
for example, the people of New England, 
and the Scotch—all great nations! • In short 
the example, the people of New England, 
cates a great people. The Dutch, for 
home is held sacred; where woman is 
ward march of the race. It seems to 
those whose life adds something to the for­
tant than school education, and nothing 
know what an upright man is—one 
important than either of the other two, 
and then eats it with as much relish 
become so accustomed to 
for a nation to honor 
its 
thy father and thy mother," said an 
ancient wise man. It were well also 
frailty loses its sacredness and begins 
恶化is a noble ambition; when mother­
ward hunting, the wrathful parents of the unhappy 
liable were it not abominable. The hap­
self artistically and proceed to dispose 
the seeds of corruption; Goethe calls "the seed of corruption," 
true because progress—universal 
progress—is chiefly an advance 
for a nation to honor 
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and discarded acorns which they had 
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endurance. Let a nation not dare to
Our Alumni Do Not Forget M. A. C.

An Institution could not desire more loyal and constant support than alumni, everywhere and upon all occasions, give to M. A. C. So far as in us, we shall always try to be as constant in our devotion to them. That we are not forgotten, the following from Z. Y. Clark, "SS, in his report as chairman of the committee on cooperation at the last State Grange, convinces us:

The state and subordinate granges of Michigan have so stood as a mighty working force for a high standard of morality and general education. As natural allies and its legitimate auxiliaries, to work out these objects, among many others, stand prominently the Michigan State Agricultural College—state series of Farmers' Institutes, the Farm Home Reading Circle, and the state circulating libraries. The first mention of those in an especial sense should be the charge, care, and ward of the Michigan State Grange.

As instruments provided to the farmers' advancement they are most worthy objects of our hearty cooperation. Their shores will be best subserved by introducing their literature, attending and promoting their meetings, affording them consideration, and by withholding the ruthless hand that would effect reform by the process of revolution, not evolution.

An amusing literary blunder.

In Penrose Cooper's tale, "The Spy," Mr. W. R. Goodwin used the characters, lives at a place called "The Locust." This a French translator rendered "Les sauvageons." Evidently, he had not heard of a tree called the locust; hence his mistake. But mark the ludicrous blunder that followed. Presented the translator came to a passages the where it was stated that a visitor had tied his horse to a locust. The idea incensed him sufficiently to scaring his head perplexedly over this, and having strong doubts about his previous rendering. It he turned once again to his dictionary, he evidently found no assistance; so he write with a bold hand that the rider had secured to a node. Then, taking a fresh dip of ink, he clinched the matter by gravely informing the reader that these insects grow to an enormous size; and that, in this case, one of these—dead and buried—was the charge, care, and ward of the whole of the humorous installment.

Quaries Answered.

"What are our newspaper agencies?"

"Store: today's papers always come to Morrow.

"I. A Mason fifth grader was asked: "What is the difference between the cause back promptly and confidently.

"Water flowing over a peeperset.

"Instructor to 1starithmic class:

"How many in a family consisting of husband, wife and children are entitled to half the property?

"Smart Boy—"Two and one to carry.

"Teacher—"Janes, you may point out to the class a spot upon your map not yet unexplored and unchristened, and of which the world at large is in utter ignorance.

"Pupil—"Yes, ma'am; this "sphere spot.

"Did you ever notice this,

"When a fellow steaks in kios

"From a righteous table and meek,

"How her scriptural training shows

"In not turning up her nose

But in simply turning round the other cheek?

"-Cornell Waier.

The following remarkable physiological statement occurred in the examination of a few specimens of a strange flower, from the show of the lime, and it was in this same saucer that the bones of Livingstone were collected and brought back to civilization."

We also find two small specimens in this collection which possess little interest, one being a board from the ill-fated steamer Chacora. This specimen was picked up on the beach by Mr. Goodwin back of his father's farm, near the place where this steamer is said to have disappeared.

The other specimen is a feather from the bones of Livingstone were collected and brought back to civilization."

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The Farm Home Reading Circle

The fundamental purpose of the Agricultural College is to educate farmers' sons and daughters toward the farm and not away from it. She is doing this and in addition is making it possible for those who cannot afford a college course to become proficient in agricultural work through the Farm Home Reading Circle. One of the objects of the Farm Home Reading Circle is to recommend the best books for the farmer, gardener and stock breeder to read, and at the same time to furnish an opportunity for the farmer to keep up with books at greatly reduced prices.

The course of reading outlined has been prepared by men who are authorities in their special lines. The books offered in the course are thought to be as good as can be secured at a reasonable figure. The privileges of the Farm Home Reading Circle are not limited as to age or occupation. Anyone who is a resident of Michigan may become a member. One of the most commendable features of this course of reading is that you can read at your own pace.

You do not have to organize a society.

MEMBERSHIP COSTS NOTHING.

ADVANTAGES TO MEMBERS OF THE FARM HOME READING CIRCLE.

1. An opportunity to pursue a systematic course of reading under the direction and with the aid of all departments of the Michigan Agricultural College.

2. The publicaton of the Michigan State Experiment Station are mailed free to members of the Farm Home Reading Circle.

3. You can secure standard books at greatly reduced rates.

4. You not only secure the benefit of the best books on agricultural topics but you also get a certificate on the completion of each book which cannot fail to be of value. You may thereby increase the value of your certificate or occupation. Anyone who is a resident of Michigan may become a member.

You do not have to organize a society.

MEMBERSHIP COSTS NOTHING.
THE TIME

To get an education is now, while you are young and strong, while your mind is receptive, your memory retentive. NOW will never come again; and altho' there may be difficulties in the way, they are not likely to become less formidable if you go plodding on without preparation for your life's work.

THE PLACE

TO GET AN EDUCATION is where you can get thorough training along practical lines. Life is too short to spend much time in weaving fanciful theories. FOR THE YOUNG MAN who is ambitious to become a useful American citizen, strong and self-reliant, or THE YOUNG WOMAN who would prepare herself to wisely conduct the affairs of a home—and there are no higher ambitions—there can be no better place than at...

...The Michigan Agricultural College.

The Fame of Our College Has Gone Abroad

Our last Catalog shows that WE HAVE STUDENTS FROM JAPAN, SIBERIA, SWEDEN, SCOTLAND, ENGLAND, ARMENIA, QUEBEC, ONTARIO, NOVA SCOTIA, ELEVEN STATES AND THE DISTRICT OF COLUMBIA IN OUR COUNTRY, BESIDES FORTY-NINE COUNTIES IN MICHIGAN.

We number among our post-graduate students, men and women from the University of Michigan, Amherst, Oberlin, Olivet, The State Normal, and many other institutions of learning.

But our most laudable pride is in the work our graduates are doing—they occupy positions of honor and trust in all the walks of life, and their work is a proud monument to the training received here.

WE HAVE THREE COURSES

The AGRICULTURAL COURSE
The MECHANICAL COURSE
and The WOMEN'S COURSE

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