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M.I.T. CO-OPERATIVE.
THE Editors of The Tech take great pleasure in dedicating this number to the Class of '99. At this period of the Sophomore year, with the election of its "Technique" Board, the Class begins to take its share in those larger Institute affairs in whose leadership it is to be pre-eminent next season. In the management of its drill and athletic affairs, '99 has shown a marked ability which we feel sure will continue to be still further manifest. What is more important, however, the Class is distinguished by an absence of petty politics, and by a genuine public spirit which we hope for the good of Technology may never suffer diminution.

THE annual report of the Alumni Association is at hand and is decidedly an encouraging one. It is stated that while "in the annual report a year ago it was said that the year had been one of unusual activity and interest," "that is fortunately still more the case for the year just ended." The most important business of the Executive Committee has been the initial work leading to the establishment of the Technology Club, and the success of these labors has exceeded their most sanguine anticipations. The Committee on the School reports progress on the same high standard which has made for Technology a reputation throughout the world, and add that "there should be no doubt that as our Alumni advance in influence and wealth, the matter of lack of funds, which has so hampered the progression of the Institute in even more advanced lines of science, will be overcome."

The condition of the Gymnasium is especially called to the notice of the Alumni. It is the opinion of the Committee "that if there is any department in the school which needs the earnest support and interest of the Alumni it is the department of physical training. An attractive gymnasium, under good management, would certainly tend to improve the physical condition of the students, and would also tend, in a certain way, to bring about a closer college feeling, of the lack of which we often hear. We, therefore, urge upon the Alumni the necessity of taking some steps to secure for the Institute a gymnasium, and a development of its department of Physical Culture to a par with the general standing of the other departments."

A special circular enclosed with the report calls attention to the "Life and Letters of William Barton Rogers," of which an account was given in these columns. This vitally interesting work to all Institute men is published by Houghton, Mifflin & Co., for $4, and discounts can be obtained on this price from most booksellers.
ALTHOUGH the Intercollegiate Drill is more than two months ahead, preparations for it have been in progress some time, and every effort is being made to insure the success of the battalion. Technology has borne herself very honorably in preceding contests. It is, therefore, with more than ordinary interest that we anticipate the achievements of 1900, on the 21st of May. But it is eminently desirable that the upper classmen should look at the coming contest as the affair of Technology as a whole. While it is for the Freshmen to take the active part, it is for the student body to support them by every possible manifestation of their interest in the contest. Attendance upon some of the drills by upper classmen is desirable, and suggestions or criticism will be gladly received. With the hearty support of their fellow students, the battalion will go into the contest with the determination to keep up the pace already set for them.

The Committee on the Memorial to President Walker, having obtained by general appeals only $450, put the matter two weeks ago into the hands of collectors in the different courses. Last Saturday, at the time appointed for these collectors to report, only about $50 more came in. This is a matter not pleasant to speak of, but we believe still that very many men have only neglected, through thoughtlessness, to make their contributions. It is necessary for the Committee to know at once upon what they may depend.

Typical Theses.

COURSE VIII.

[Thesis of Messrs. Manson and Haskins.]

Aside from the engineering courses at the Institute, Course VIII. deals with subjects of a purely scientific nature, and the theses in this course are of the nature of scientific investigations. Messrs. Manson and Haskins have determined to continue the work done by Messrs. C. G. Abbot, '94, and G. K. Burgess, '96, in investigating osmotic pressure, and will endeavor to test experimentally the application of the laws for solutions which correspond to the laws of Boyle and Charles for gases, that is, the laws expressing the relations between pressure and volume. The substances which they will investigate are ether solutions of certain organic substances.

The necessary osmotic pressures will be obtained from measurements of the changes of vapor pressure, first with the solution at constant temperature, and then at constant pressure. The former quantities will be determined by means of an oil manometer, and the latter by an electrical resistance thermometer which Messrs. Manson and Haskins are designing. Both instruments are to be of a differential nature. The volumes will be deduced from specific gravity measurements.

The Sophomore Dinner.

In addition to the elegantly furnished reception room, convenient arrangements, and bright and handsomely fitted dining room of the Brunswick Hotel, the nearness of the Institute buildings lent another charm to the merry gathering at the Sophomore Dinner last Friday, and seemed to give to all a greater enthusiasm and love for Technology. Although not surpassing the previous dinner of the Class of '99 in size, exactly the same number being present on both occasions, there was a considerable increase in the fellowship, good feeling, and postprandial ability exhibited. The menus were tastefully gotten up, and were decorated by a clever design by Mr. Rood. The design showed a college man in cap and gown, gaily clinking glasses with a jester, and bore the appropriate motto: "Eat, drink, and be merry, for tomorrow we flunk."

When all had partaken of those pleasures which come from the combination of an ex-
cellent dinner and an equally good digestion, President Hammond arose, and after an appropriate address, in which he mentioned the need of more social life at Technology, introduced the toastmaster, Mr. A. L. Hamilton. After thanking the class in a few well chosen words for the honor of presiding over them, the toastmaster introduced Mr. Renshaw, who paid a high tribute to General Walker, in response to the toast, “Our Late President.” Messrs. Hazeltine, White, and Addicks then rendered a number of banjo and guitar selections, which were received with appreciation and applause. Under the head of “Athletics,” Mr. H. L. Morse told of the good work done in various lines by Lathrop, Burch, Blake, and others, and urged all present to take a greater interest in this department.

Mr. Stebbins responded to “Technique,” giving an outline of the growth of the book from its beginning to its present position at the head of all college annuals, and urging the necessity of selecting a good board of editors, and the duty of the class in supporting them. The ’99 quartette, Messrs. Pierce, Adams, Johnson, and Page, sang several selections, after which Mr. G. M. Richmond recited some verses written for the occasion entitled “The Brotherhood,” and giving a warning to “bluffers.” Mr. Corse gave a “Retrospect” of the various events through which the class has passed, and got off several very clever puns. The interests of THE TECH were ably championed by Mr. Sheak, who told the aim of the paper and urged better support from the class in the way of representatives on its editorial staff. Mr. Vogt then gave several piano solos, after which Mr. Rood, in response to the toast, “Faint Heart,” told some interesting adventures of “his friend Jones.” Mr. Holliday spoke on “The Institute”; Mr. Johnson sang several songs, and Mr. Shumaker closed the list by a discourse on “Our Freshmen,” giving, in a particularly unique and interesting way, an account of their origin and his opinion of their actions.

The regular programme having been disposed of, Mr. Emery sang “The Little Tin Soldier”; stories were told by the toastmaster and a number of others; college songs were sung, and the time passed very pleasantly until after midnight, when with a hearty cheer for Institute and class, the party broke up.

SPEECH OF MR. STEBBINS ON “TECHNIQUE.”

It takes more than a year in time, and from three thousand to thirty-five hundred dollars in money, of which twenty-five hundred must be obtained from advertisements, to produce seventeen hundred copies of this book. This work is accomplished by the energy and perseverance of twelve hard working men, supported by their classmates and by all of the students. The importance of realizing the position of “Technique” cannot be emphasized too strongly. It is not a book representing twelve men,—the editors,—nor representing one class; but it represents the entire Institute.

From a little paper pamphlet of one hundred and fifty pages, modestly appearing in ’85, “Technique” has grown until, according to no less an authority than the University Magazine, it is the first college annual in the United States. In its artistic work it is unapproachable,—it stands alone. In the design and execution of its drawings, it compares favorably with professional work. Of its literary productions any college might well be proud, but coming, as it does, from a scientific school where, of necessity, but little time can be given to the study of English (all pardon to Course IX.), our pride in it is still more justifiable.

The most surprising thing is the finish and care given to details. As an example of the latter, take the book of ’97, in which every page came before the reader right side up, and every drawing and illustration in its proper place. If only the authors of our text-books
were as considerate as are our class editors, probably everybody would save enough time during one term to attend the only social event of the year,—the Class Dinner. From the accuracy of the various statistics down to the excellency of the posters, everything shows care and forethought.

Each year something has been added and each year the responsibility becomes greater, thus the responsibility varies as the cube of the improvement. Many old editors have said that it was only a question of time before the book would have to be given up on account of the increase of work at the Institute. The Class of '99 must now undertake this responsibility, and this work. Will she prove herself worthy of this great trust? Will she carry the book triumphantly forward, winning new laurels for herself and for Alma Mater? If she is to uphold her well earned fame, every man in the class must do his part. We must first choose a Board wherein each man holds his place, not because he is a good fellow, not because he has good friends, but because he is of all the men in the class, the man best suited to carry on the work of his department. Having then the best Board that '99 can produce, let every man give it his heartiest support. There is work for us all and we must all do our share. Only thus can we uphold the honor of our class and the fame of our Institute.

EXTRACT OF THE SPEECH OF MR. CORSE ON "RETROSPECT."

As the first duty of a speaker is to tell what he is going to talk about, I will say for the benefit of those of us who do not belong to that celebrated course which has had the opportunity to become proficient in logic and such branches, that my title means simply that I am to sum up the events in the history of the class.

Having successfully passed that series of back-breaking exercises called entrance ex-
when we received our semi-annual love letter from the Secretary, and our billet-doux (bill est due) from the Bursar. But such things do not worry us long, so again we are back, more firmly united in class spirit and ready to support '99. And when we shall have finished our course here at the Institute, successfully or otherwise, and have entered and passed through our future careers, we shall still have the remembrance of this, our former life to make us content. For as Thomas Moore says,—

"When time who steals our years away,
Shall steal our pleasures too,
The memory of the past shall stay,
And half our joys renew."

SPEECH OF MR. SHEAK IN RESPONSE TO "THE TECH."

Classmates, I consider it an honor to be a representative of The Tech; but I consider still a greater honor to be one of your representatives on The Tech. It is not my intention in the time that has been allotted me to speak of our subscriptions or finances. It shall be my endeavor, however, to point out to you the exact policy of our paper and your responsibility toward it. The aim of The Tech has always been one and the same, and that is to further those interests that shall be most beneficial to the student body at large. In furthering those interests it is natural that it should seek those channels by which it may come directly in contact with the entire Institute,—Faculty, Alumni, and Undergraduates.

We have received the hearty and generous co-operation of the Faculty, and those members who are heads of departments have especially aided us by the news which they have contributed. The Tech is making unceasing efforts to obtain Alumni Notes, by means of which it hopes to arouse the dormant interest for Alma Mater in the graduates. We have succeeded to a certain extent and feel confident of still greater success.

To the Faculty and Alumni The Tech extends its most heartfelt thanks for past favors and sincerely hopes for their continuance. To the undergraduates The Tech owes what success it has attained, but is that success in keeping with the privileges which are granted you here at this Institute? You have responded generously as a class in regard to subscriptions; but what we need most is your unprejudiced criticisms. Criticisms by which we may see our failings, and thereby have an opportunity to correct them.

The Tech stands ever ready to help those organizations or schemes by which the social life at the Institute may be augmented; but it cannot do so unless it has your hearty and whole-souled co-operation.

In closing, let me make an appeal in behalf of the editors. An appeal for every man in this class who thinks he has any literary ability, to try for The Tech Board. The success of the paper for the next two years depends, to a great extent, upon the Class of '99. Shall we accept this heritage, or shall we refuse it?

Class Day Officers.

The following men were elected as the Class Day Officers of '97 last Thursday. First Marshal, H. A. Noble; Second Marshal, H. W. Allen; Third Marshal, P. L. Dougherty; Historian, H. W. Ballou; Orator, H. D. Hunt; poet, S. L. Howard; Prophet, A. W. Jackson; Statistician, J. A. Collins, Jr.; Class Day Committee, T. C. Atwood, C. W. Bradlee, W. H. Cutter, O. H. Gray, E. M. Hawkins, E. H. Howard, A. C. Lamb, F. N. LeBaron, G. H. McCarthy, W. O. Sawtelle, C. Schuttler, and T. R. Weymouth. The amendments reducing the number necessary for amending the constitution to one third, and raising the two dollar limit placed upon assessments, failed to pass.
The Sophomores have completed the course in Electricity and begun the study of Optics.

First Freshman: "Have you been over to the roller skating rink yet?"
Second Freshman: "Naw, that sort of skating doesn't cut any ice."

Professor Despradelles says that many of the Junior designs now on exhibition in the Architectural Building, would obtain the mentions in the Ecole des Beaux Arts at Paris. Why shouldn't they!

Edward North, 1900, will describe some experiences in a French school at the meeting of L'Avenir to-morrow. All men interested, and especially members of the lower classes, are urged to attend. The meeting is in Room 23 Walker, at 4.15.

The fifth lecture on Photography was given on Tuesday, March 16, at 4.15, in Room 22 Walker Building, by Mr. Derr of the Physical Department. The four preceding ones dealt with the subject from the standpoint of Optics. This one, as well as two or three to follow, deals with the Chemistry of Photography. Later lectures will deal with the various printing processes, the making of slides, and the use of the lantern. The course is particularly valuable to upper classmen in the Engineering courses.

The next meeting of the Electrical Engineering Society will be held on Friday evening, March 19th. Professor Puffer, of the Electrical Engineering Department, will deliver an experimental lecture on "Alternate Current Phenomena," with the object of presenting in tangible form the laws with which the students are familiar from a theoretical standpoint. The lecture will be thoroughly illustrated and will be very interesting and instructive to all, especially to the Senior members of the society.

A Members' Reception was held at the Y. M. C. A. Student House, 466 Massachusetts Avenue, on Thursday evening, March 11th, at 7.30 o'clock. Alexander McKenzie, D.D., was the guest of the evening. Mr. I. O. Whiting, Mr. Arthur S. Johnson, and Secretary Mahaffy of the City Association, several Technology Alumni and about forty-five members of the Technology Association were present. The early part of the evening was spent in social intercourse. A short informal address, full of suggestion for Y. M. C. A. work, was given by Dr. McKenzie. Later refreshments were served.

Tuesday evening, March 9, at the Brunswick, one hundred and fifty members and guests were present at the fifteenth annual dinner of the Boston Society of Civil Engineers. After a bountiful repast Professor Swain, President of the Society, introduced Mr. Wm. R. Hutton, one of the Vice Presidents of the American Society of Civil Engineers. Mr. Hutton spoke of the relation between Civil, Mechanical, and Electrical Engineers. President Mendenhall of the Worcester Polytechnic Institute spoke at length on the education of engineers, and advocated a high degree of precision in all engineering work. He considers Electrical Engineering the most perfect type, for in this case the science of the profession preceded the art. President Clark, of the N. Y., N. H. & H. R. R., complimented very highly the integrity of civil engineers. Remarks were also made by Mr. W. B. de las Casas, Chairman of the Metropolitan Park Commission, by Mr. Emil Swensson, of Pittsburg, and by Mr. Karl E. Hilgardo, of St. Paul.
Professor Allen's Informal Talks.

On Friday afternoon, March 12th, Professor Allen gave another of his illustrated talks to the students of Course I.; this time on "Good Roads, Bad Roads, and Highway Location." In dwelling upon the excessive operating expenses of most of our highways, he stated that American transporters would be warranted in making an outlay of a billion dollars for the improvement of existing roadways.

The appreciation of the fact that money spent in improving roads is well invested capital, has led European countries to make a special point of this element of interior development, and to thereby better their domestic as well as foreign commerce. This exercise of good judgment slightly preceded the establishment of railways, so that in Europe to-day the conditions are of the best; while in America, on the contrary, the rapid growth of the country has been due to railroad construction. The result is that little foresight has been used, a hasty stride in development has been taken, and we are now brought face to face with the demand for better facilities for local traffic. The question is of growing importance, and facts were brought out by Professor Allen to the effect that action is being taken throughout the country to bring about the necessary improvement. At these informal talks, Professor Allen is always in the best of humors, and makes many side remarks that are most pertinent and witty.

The Intercollegiate Drill.

The Intercollegiate Drill has been arranged for Friday evening, May 21st. As previously, Technology has challenged Brown to compete in the Battalion Drill. It is probable that the colleges to take part in the Individual Drill will also be the same as last year, namely: Harvard, Brown, Amherst, "Aggie," and M. I. T.
It was voted that the sense of the meeting was in favor of such a board. A discussion of the advisability of sending a team to the relay races at Philadelphia followed, and a committee of the President, Vice President, and Treasurer, was elected to inquire into the expense of sending the team. Messrs. Hurd, Strickland, and Lansingh also spoke. The meeting then adjourned.

COMMUNICATIONS.

The Editors do not hold themselves responsible for opinions expressed by correspondents.

To the Editors of the Tech:

I wish to denounce the action of the peevish malcontent who used these columns last week to make a malicious and personal attack upon one of the speakers of the Junior Class Dinner. The writer conceitedly avers that he speaks "in the name of many;" this is plainly an exaggeration, but if it be true, I shudder at the possible number of intolerant, aggressive, and egoistic spirits in the Class of '98. He asserts also, in referring to the speaker, that he "cannot comprehend how a man...can be so hidebound," etc., and then makes an awkward and painful attempt to twist the speaker's words into various uncanny and glaring absurdities, which not only show a pitiable state of mind, but also the lengths to which the writer will go to satisfy a personal spite. It is lamentable that such people as our friend exist, but we cannot close our eyes to the melancholy fact.

The speaker referred to did not directly discountenance the higher education of women. He objected only to education in those branches which do not properly lie in woman's sphere, and which would crush out true womanly spirit and transform our homes into bare wastes of unsentimental, non-domestic, and unartistic dreariness. It certainly seems as if the speaker were justified in repeating a generally accepted opinion—an opinion that denounces any attempt to drag gentle woman down to man's moral level.

The writer of the whimsical lampoon closes by hinting that the "refining influence" of the Co-eds was lost on the speaker. As it is a very mournful fact that very few of us have the fortune to know many of the fairer students of the Institute, it is hard to see how our lives can be thrilled and swayed by their influence. If our friend is an example of what the Co-eds of Tech can do, we must needs hang our heads with shame, and fill our hearts with boundless pity.

A Foe to Calumny.

Types of Freshmen.

There are many types of Freshmen. Perhaps the most common as well as the most amusing of them all is the assertive Freshman. He generally carries a cane, and his defiant bearing is calculated to cow the Sophs. He has a habit of talking loudly in the corridors about the cane rush, class honor, and kindred subjects. He is proud of being a Freshman, and lets everyone see it.

In direct contrast to him is another common type of Freshman. He wears a light felt hat, smokes cigarettes violently, and tries in numerous other ways to pass for an upper classman. His calm air of superiority stamps him—so he thinks—as one deeply versed in the treacherous paths of the Institute. He is generally to be found before the third-year bulletin board, which he affects to study attentively, much to the awe of his simpler classmates.

On Wednesdays still another type of Freshman is prominent; namely, he who struts proudly about arrayed in full uniform, with officer's stripes gleaming on his sleeves. He is so proud of these insignia of power that he improves every opportunity of displaying them to his admiring fellow-students, sometimes even coming to recitations without an overcoat during the coldest weather. Nay, it is even rumored that one misguided youth traveled for two days in his uniform, so as to appear before his admiring relatives a full-fledged soldier.

The "Grn'd."

The "Grind" is he who o'er his books Doth tarry far too long. He never takes an evening off; To "flunk" he thinks quite wrong. His pallid cheek would fain relate How midnight oil he burned. The mark he gets is always C; His lesson's always learned. But when the class has been dismissed, Why tarries he behind? Oh, now, he "jollies up" the Prof.; An axe, it is, he'll grind.
'86. P. R. Fletcher is City Engineer of the towns of Blue Island and Morgan Park in Illinois. Mr. Fletcher will be remembered as one of Technology's old-time football players.

'91. Frank H. Dorr, of Course VI., who died January 9th, at his home in Somersworth, N. H., was a most promising electrical engineer. Previous to the long illness which resulted in his death, Mr. Dorr was employed as an electrical expert with the General Electric Company, and was stationed at Chicago. His employer has words of highest praise for his efficiency, such as few men deserve. They may be here inscribed as a monument to the life which has passed from earth, "He did everything he was asked to do better than was expected or required of him."

'89. Geo. M. Bosford, of Course II., who is Mechanical Editor of The Railway Review, is signally successful in the line of work which he has taken up. His friends say of him that he is peculiarly adapted to his work. He holds a position that his predecessors have found a most trying one; yet Mr. Bosford has so ably organized his department that his work is most efficient. Mr. David L. Barnes, deceased, who was for a year or so a student at Technology in '78 and '79, formerly occupied this position as Mechanical Editor of The Railway Review. The latter, we will have something to say about in our next issue. Mr. Bosford holds the position as Secretary of the Western Railway Club, and in this capacity is also Editor of their Journal of Official Proceedings, which is published monthly.

G. F. Ulmer, '98, was recently elected captain of the 'Varsity Football Team in place of E. C. Emery, '98, resigned. Mr. Ulmer has played on the team since his Freshman year, and has always put up a good game at guard.

It is hoped that Tech. men will support the Scratch games on March 20th both in attendance and entries. The programme is a very good one, and there promises to be a large number of entries. The admission is reduced to twenty-five cents this year. For men who have never won a prize for sprinting, there is a good chance in the novice 35-yard dash.

The Boston College meet was a great success, and the programme was interesting from beginning to end. There was a good sized crowd in the Tech. section and the cheering was brisk and lively. There were six or eight Tech. entries besides the team race, but Grosvenor was the only man to secure a place. In the final heat in the forty-yard invitation he easily tied Wefers, but the judges thought otherwise, and Wefers was given the race. The members of the relay team covered themselves with glory, and certainly they deserve great credit. Boston College won the toss and got the pole, but Grosvenor who ran first immediately took the lead and finished well ahead of his man. Priest ran next and opened up the gap still more, as did Lathrop, the third man. After that, the race was never in doubt, and Stebbins, though he did not gain anything, finished ten or fifteen yards ahead of Holland, of Boston College. The time, 3 min. 19½ sec., was the fastest of the evening, and was the same time that Brown made against us at the B. A. A. meeting.
The Lounger is glad that another class now shares with '98 the supreme glory of a special number, for ever since the honor awarded them last spring the gallant Junior's self-approbation has been painfully apparent. Of course it was last year more particularly, that the sons of '99 came under the Lounger's protecting care; and he is constrained to say that never since his installation as the patron of Freshmen has he had such a troublesome lot of youngsters to deal with. They would have a class pipe; they would drink ginger ale; they would go to Keith's; and in every way showed a firm determination to be quite men of the world. Nevertheless for a bit of a dance, which the Lounger enjoyed after the drill last spring, he is strongly tempted to let all the youthful follies be forgotten. This year, too,'99 has sown its wild oats and has settled down quietly to feel them. In the matter of the cane rush the wily Sophs made up in legal acumen and oratorical talent for any lack of brawn and muscle. Finally, it has elected a "Technique" Electoral Committee without any scandal about Fraternity or Course II. rings. May it choose its Class-day officers, when that time comes, with as great unanimity.

The Lounger has heard dim rumors in the past of difficulties between the President of the Athletic Association and the Captain of the Track team. He is pleased to note that the recent election has laid the foundation for a more peaceable state of things. Indeed he is assured that there will be perfect unanimity of action in the future between these two functionaries. It is only another case of the lion and the lamb lying down together—the lamb inside the lion.

Recently, a student at the Institute, well known to his friends, and popular with those who like him, made a call upon a young lady, as students sometimes will. Now it began to storm with great fierceness while he made his call, a thing which also sometimes happens in Boston. The young man had a long distance to go, and seeing the inclemency of the weather the maiden took pity on him and asked him to spend the night. When the youth came down to breakfast in the morning they asked him how his coat and hat, which hung in the hall, came to be dripping with water. "Why," said the guest, with a slight hesitancy, "I went home for my pajamas!"

Time Brings Changes.
(By a man from a Military "Prep." School.)

Four years ago, a martial man,
I "sighed" on Alexander's plan.
But now I say (speech they abhorred)
"The pen is mightier than the sword!"

But mine's a transitory stage,—
This is a mercenary age,—
I'll doubtless yet say, nothing loath,
"Cold cash is mightier than both!"

Don D.
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**Tremont Theatre.**—“Two Little Vagrants” will begin an engagement at the Tremont Theatre, March 22, with the original cast. Jessie Busley and Minnie Dupree created a sensation when first seen here in this great play, as the two devoted little ragamuffins call forth very high praise, and there is no doubt about their reappearance being crowned with success.

**Castle Square Theatre.**—Bizet’s “Carmen” and Balfe’s “Satanella” are to be given at Castle Square, and the many admirers of Richie Ling will be pleased to know that he will be heard in these productions, and it is to be hoped that the management will be able to retain the two latest additions to this popular company.

**The Zoo.**—“Joe” is the feature of the exhibition at the Zoo. “Joe’s” accomplishments are a surprise to all, and it seems hard to realize that he is only an animal, don’t fail to see him.

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