

One-third of '86 to overcrowd

By Barry S. Surman

With the third and final round of housing assignments complete, the dormitories will house 125 more freshmen than their capacity, according to figures released by the Office of the Dean for Student Affairs (ODSA).

The number of freshmen living in overcrowded rooms will not be known until the houses complete their room assignments, said Associate Dean for Student Affairs Robert A. Sherwood.

On average, Sherwood said earlier this week, about 2½ freshmen will live in overcrowded rooms for each assignment over capacity, so at least 360 freshmen — or almost one-third the entering class — are expected to share overcrowded quarters.

The Dean's Office assigned 776 students, including 40 transfer students, to Institute houses in three rounds of the housing lottery.

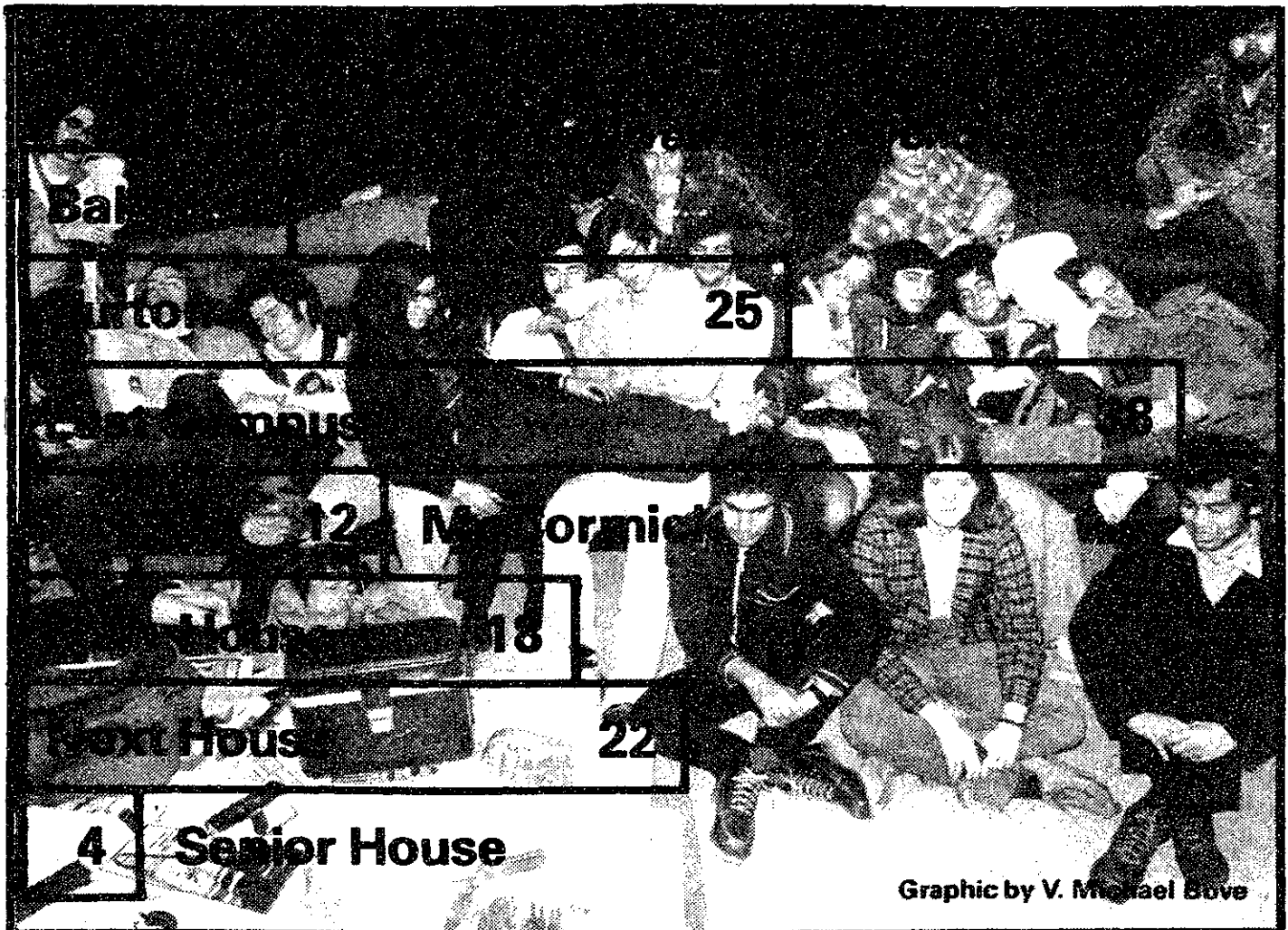
The R/O Center reported 1107 freshmen checked in by 6pm yesterday. At least eight and possibly ten more freshmen are expected to arrive at MIT, according to

Sherwood.

The number of overcrowded freshmen closely matches the figure Sherwood predicted last week. This year's large freshman class is the main factor contributing to the overcrowding of the MIT dormitory system.

Although the Academic Council authorized Director of Admissions Peter H. Richardson '48 to produce a freshman class size between 1075 and 1100 students, Richardson sent a memorandum to President Paul E. Gray '54 last week estimating 1120 freshmen would ultimately arrive.

Baker House received 35 women and 40 men in the three-round lottery; Bexley Hall, 6 women and 23 men; Burton House, 32 women and 69 men; East Campus, 28 women and 109 men; MacGregor House, 111 men; McCormick Hall, 61 women; New House, 10 women and 55 men; Random Hall, 2 women and 25 men; Senior House, 7 women and 36 men; 500 Memorial Drive, 50 women and 55 men; and the four language houses, 7 women and 15 men.



Graphic by V. Michael Bove

More join frats than expected

By Max Hailperin

Three hundred and ninety-seven students, including twenty

transfer students, had pledged fraternities by yesterday evening, according to Clearinghouse. Thirty-nine women, including two transfer students, pledged.

"I know that a lot of people have been going around [to fraternities]. I know that a number of houses have been taking over-crowds," said Mark Sorrells '83, IFC Rush Chairman.

"The fraternities did an extraordinary job," commented Associate Dean for Student Affairs Robert A. Sherwood. "The last I heard they had about 392 pledges, which is 12 more than we expected."

The Office of the Dean for Student Affairs (ODSA) and the fraternities come up with their prediction of the number of people who will enter fraternities by "evaluating the number of people

who leave each house," Sorrells explained. "We also do take into account construction, such as the new top floor TDC put in, which added five spots."

"To my knowledge," Sorrells said, "rush is basically over. There might be some specific cases in which a fraternity doesn't know how many of the bids it has out will pledge, but I think that everyone has pretty much all the pledges they want."

"There were very few freshmen who opted to stay with their parents or relatives" and join the Non-Resident Students' Association (NRSA), said Sherwood. "We usually figure there will be 10 or 12, but last year there were only seven, and this year there will probably be only three or four." Clearinghouse reported only one non-resident freshman.

Gray sees shortage

By Jerri-Lynn Scofield

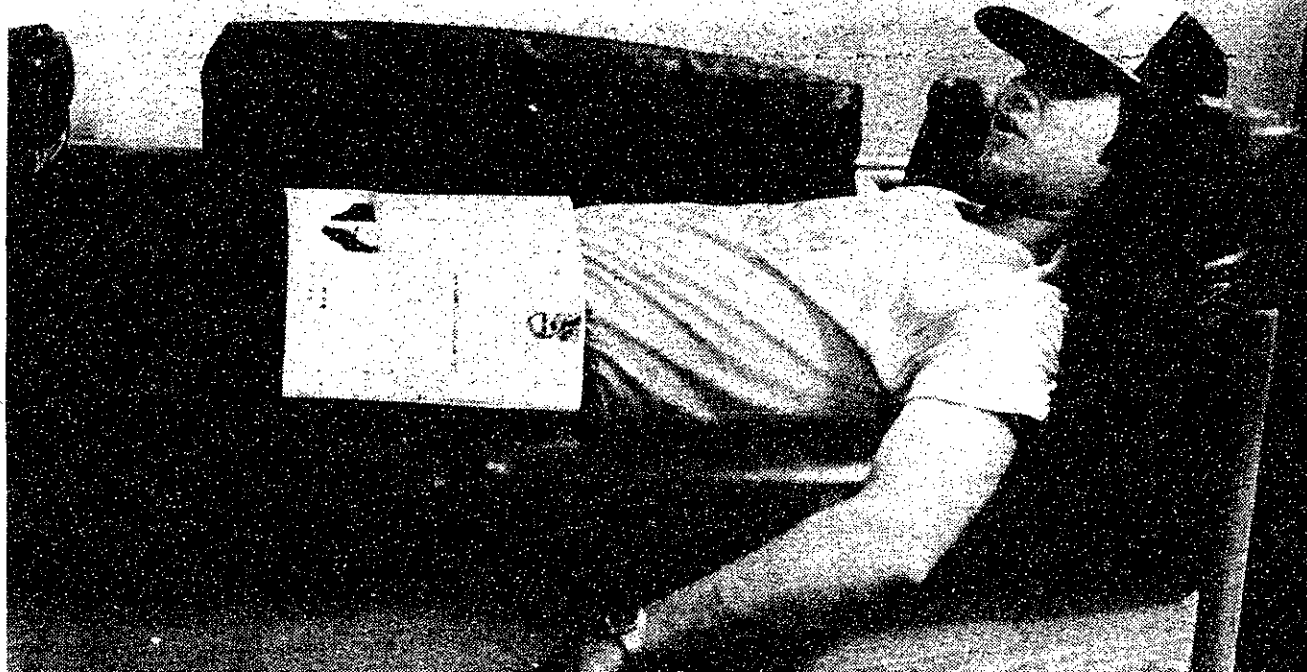
(Editor's note: This article is the first of a series examining issues affecting the Institute with President Paul E. Gray '54)

The current shortage of trained faculty members in science and

engineering "is a scandal," according to President Paul E. Gray '54.

The problem, Gray said, is that many of the most talented undergraduate science and engineering

(Please turn to page 2)



Tech File Photo

Rush week ends today.

MIT women achieve on par with men

By Laura Farhie

There is no significant difference in academic performance of men and women students at MIT, according to a report released by the Advisory Committee on Women Students' Interests (ACWSI).

Women participate fully in extracurricular activities and receive a substantial share of awards, the report states.

Grading at MIT shows no correlation to sex of student, says the report. Men and women are indistinguishable by grades across all departments averaged

over the past five years.

A study has not been done to determine whether a higher percentage of women are enrolled in "easier" majors, according to committee member Dorothy L. Bove, Associate Director of Student Financial Aid.

There is no significant difference in the percentages of women and men on academic warning, the report continues.

Fifteen percent of academic awards in June 1981 went to women students, while women comprised 19 percent of the undergraduate population. Aca-

ademic awards are recommended by students' departments, and "women students may not be as well known in their departments, even if their grades are as good or better," Bove said.

Some women may be less involved in their departments because they are more involved in extracurricular activities, Bove claimed. Women received 31 percent of extracurricular awards, 21 percent of athletic awards, and 20 percent of military awards in June 1981.

Twenty-six percent of Phi Beta Kappa members at MIT in 1981 were women, according to the report.

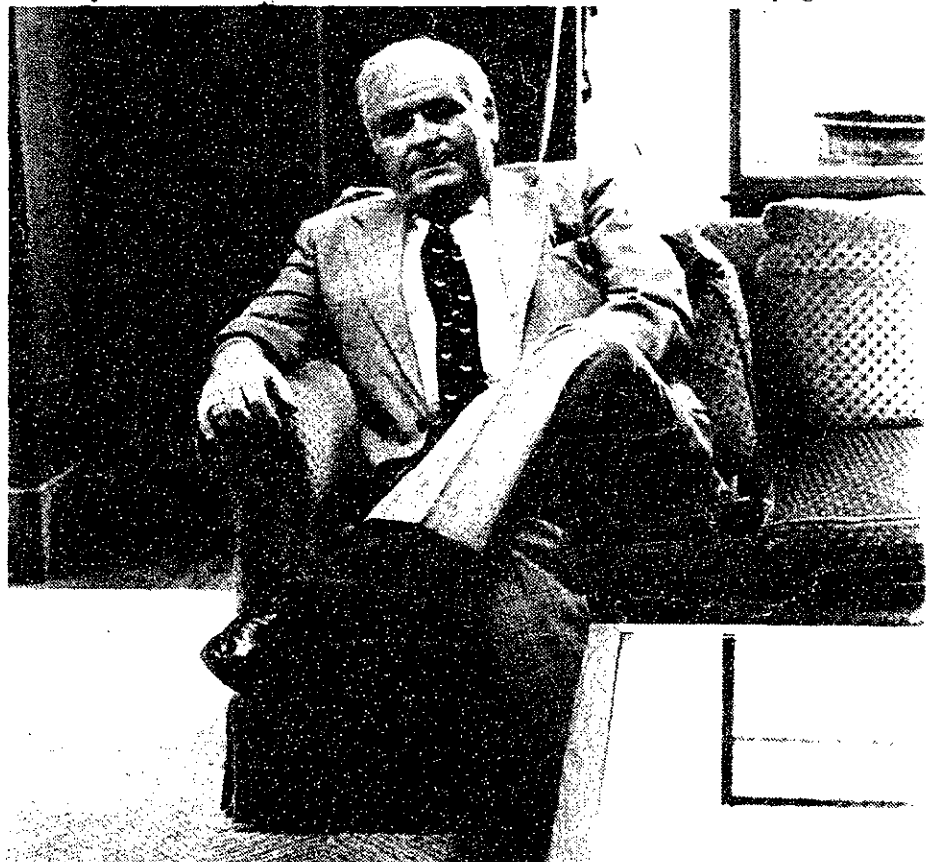
The engineering honorary society, Tau Beta Pi, offered membership to 11½ percent of the 277 women enrolled in engineering last fall, the report says. Almost 15 percent of the 1332 men enrolled in engineering were invited to join.

The Committee on Discipline heard 82 cases in the last five years. Only three cases involved women, according to the ACWSI report.

inside

All you ever wanted to know about World, National and Local News ... Page 3.

Last night's Activities Midway captured on film. See the Photo Essay on Pages 6 — 7.



Tech Photo by Laurie Goldman

President Paul E. Gray '54 is worried by the shortage of trained faculty members in the science and engineering fields.



Freshmen finished moving into their permanent rooms yesterday. Tech Photo by Laurie Goldman

Gray sees prof. shortage

(Continued from page 1)

neering students do not continue studying toward master's or doctoral degrees. Economic forces, including the high cost of education and the lucrative salaries offered by private industry to students with bachelor's degrees, have lowered the number of students who choose advanced study.

"For [MIT], it's a problem," Gray noted, though MIT's "vacancy rate" hovers at two to three percent. Other academic departments in this region have vacancy rates as high as 20 to 30 percent. For instance, an engineering department at Northeastern University has 11 of 34 faculty positions vacant.

The faculty shortage is further compounded by the number of students electing to study engineering. "Engineering enrollments at MIT are at an all-time high," Gray observed.

"The vigor we have seen in the last few years for engineers... is likely to continue," Gray speculated. He predicted there will be no more wild swings in employment opportunities as there have been in the past.

On the other hand, as the demand for engineers continues, "secondary schools in the country are failing in the teaching of science and mathematics," Gray asserted. Only one high school in three offers more than one year of science and mathematics courses and only one in six high school students has studied more

than one year of science and mathematics by the time he graduates.

"How can you live in the modern world and be a good citizen if you stopped with Algebra I and Biology?" Gray asked.

When dealing with advertisers, kindly mention The Tech.

MIT research spawns corporation

By Joel Gluck

A company formed by eight MIT chemical engineers is selling a computer program to assist in the design and evaluation of processing plants.

ASPEN Technology, Inc., formed in August 1981, sells its program — ASPEN-PLUS — to builders of petroleum refineries, chemical plants, and paper or mineral processing installations.

The original Advanced System for Process Engineering (ASPEN) software was developed at MIT with funding from the US Department of Energy. The program was developed to simulate steady-state chemical processes. ASPEN-PLUS, the enhanced version of the program, includes program updates and is sold to companies for \$50,000 per year.

A company using the system can typically save "millions of dollars," according to Dr. Lawrence Evans, president of ASPEN Technology. The program, he said, can speed the design of new plants, or evaluate those already in operation. The savings in energy use and efficiency may be "several percent," Evans claimed, translating into great monetary savings.

A California-based company, Simulation Sciences, markets a program called PROCESS, which performs functions similar to ASPEN-PLUS. Although Simulation Sciences is an older, well-established company, Dr. Evans feels "ASPEN is a more powerful, flexible, system." A company can tailor the program to suit its own needs and can implement its own models, he said.

Major users of ASPEN-PLUS include Gulf & Western, Sohio, Eastman-Kodak, Dow Chemical, Petrol Canada, and Union

Carbide.

Although ASPEN technology has been a successful enterprise, Dr. Evans feels that "things are going too slow" and suspects that this is an effect of the adverse state of the economy.

ASPEN hopes to develop a dy-

namic process simulator to examine not only steady-state processes, but also analyze start-up, shut-down, and emergency operation, Evans said.

Currently, ASPEN-PLUS runs on IBM, Univac, and DEC VAX systems.

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news roundup

World

Israel angered at Reagan proposal — The Israeli cabinet has reacted angrily to a letter from President Ronald W. Reagan calling for an freeze on new settlements in Israeli-occupied territories on the West Bank and Gaza Strip. Reagan restated his opposition to the creation of a Palestinian state, however, and omitted any reference to a role for the PLO in negotiations. In a nationally-televised television speech Wednesday, the President predicted more active US participation in future talks. "A clearer sense of America's position on key issues is necessary," Reagan said.

Mexico nationalizes banks — Outgoing President Jose Lopez Portillo Wednesday the Mexican government would nationalize private banks to prevent the flight of private capital during Mexico's financial crisis. Lopez Portillo also declared new exchange controls would be imposed, and announced all banks would be closed until next Monday. Mexican currency has declined 75 percent in value over the past year.

US clarifies pipeline penalties — The Reagan Administration has decided to ease penalties against companies supplying equipment for the Siberia-West Europe natural gas pipeline, describing the original total embargo order as "perhaps . . . a little too sweeping." Previously, sweeping sanctions had been imposed on British and European companies defying the US boycott of the Soviet project. President Reagan said the changes are not a relaxation, but a "clarification."

Chinese Congress to make changes — The 12th Congress of the Chinese Communist Party now meeting in Peking is expected to authorize "significant" amendments to the party's constitution. The changes are seen as part of party leader Deng Xiaoping's move to create a more moderate and pragmatic political environment. Purges of party members installed during the Cultural Revolution are expected, as well as the retirement of some members of the aging Chinese hierarchy. If implemented, the changes will amount to the most extensive non-violent transformation in the party's history.

Labor movement set back in Philippines — The Phillipine military arrested 23 union leaders in Manila Wednesday, in a crackdown against the labor movement. Five of the 23 have been released following "investigation and character identification." The remainder are being detained under emergency regulations ordered by Phillipine President Ferdinand Marcos, who is currently visiting the US.

Nation

National Enquirer not sued by Justice Department — The Justice Department decided not to sue *The National Enquirer* for publishing a poem entitled "Bloody Love" sent to it by John W. Hickley, who shot President Reagan and three other men March 30. Attorneys for actress Jodie Foster had asked the department to prosecute the weekly newspaper.

Local

Hingham man dies in T rescue — David McNeice, 22, died Tuesday night, after being hit by an MBTA red line train while trying to rescue Walter MaComber, 26, who had fallen on the tracks at Washington station. MaComber, who was also hit by the train, is in stable condition in Boston City Hospital after surgeons amputated his left foot Wednesday night.

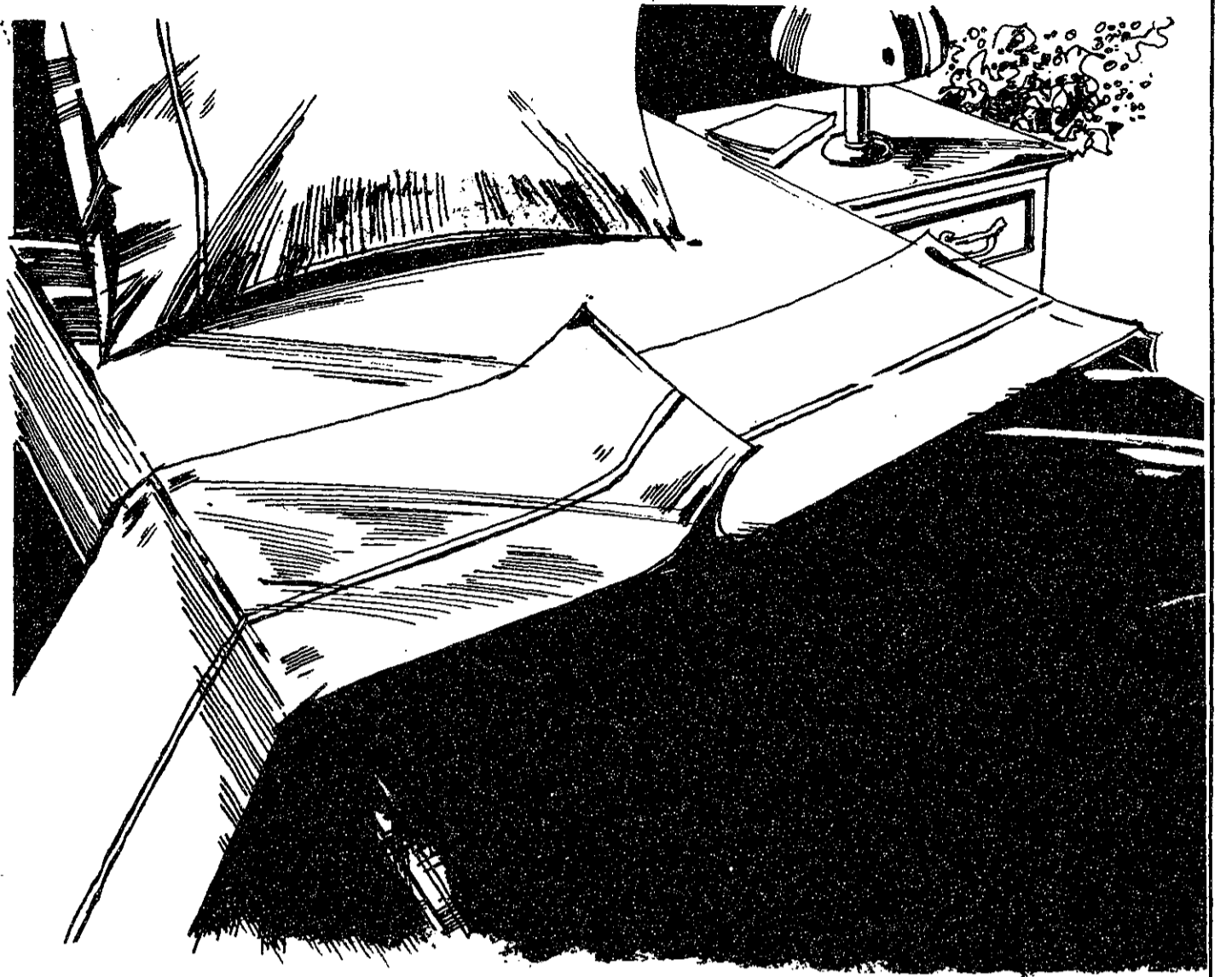
Richard Mlynarik and Joel Gluck

Weather

Clouds and showers will continue through most of the day today, but the humidity will begin to drop and skies will begin to clear late this afternoon or this evening. Today's high will be near 80; the low tonight will be in the mid-50's. The sun should reappear Saturday amidst scattered clouds, with a chance of scattered showers and a high in the mid-70's.

Barry S. Surman

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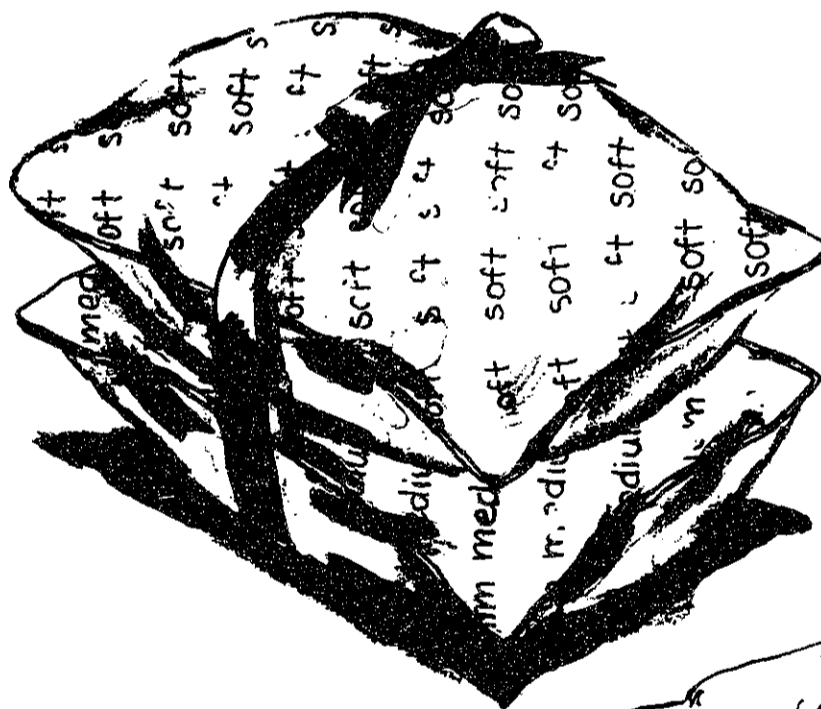


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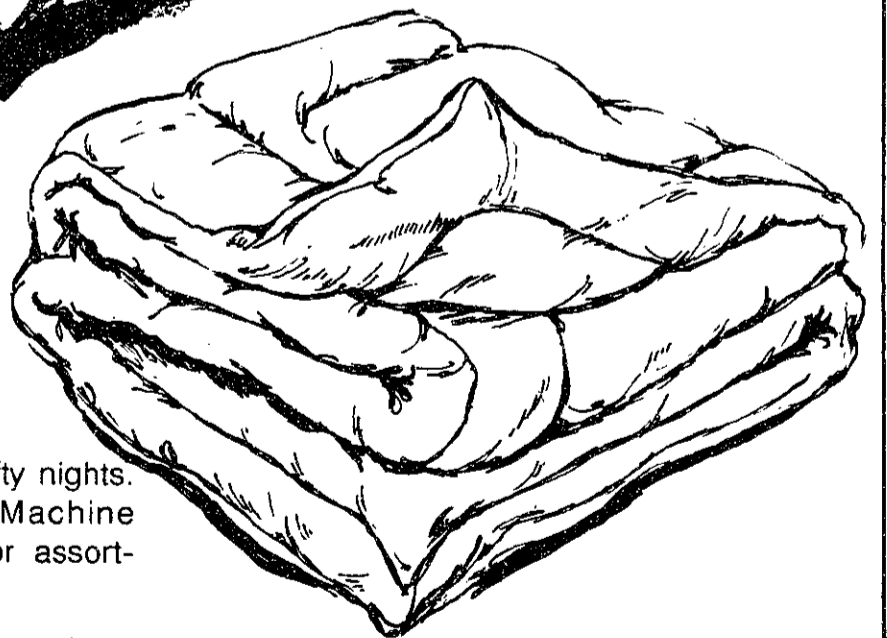
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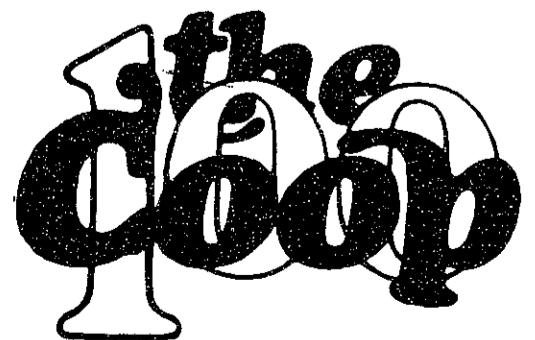
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Opinion

Editorial

Three ways to improve R/O week

MIT's method of assigning incoming students to housing is unique among universities. Less than a week after arriving on campus, freshmen and incoming students choose their living groups, based on personal perceptions of the character, emphasis, and personalities of the various houses. It is often said that if the Institute tried to assign students to appropriate living quarters, it would take much more time and people would be much less happy; the MIT administration has discovered that by allowing students to choose, within certain constraints, their living groups, they usually feel they have made the "best" possible decision.

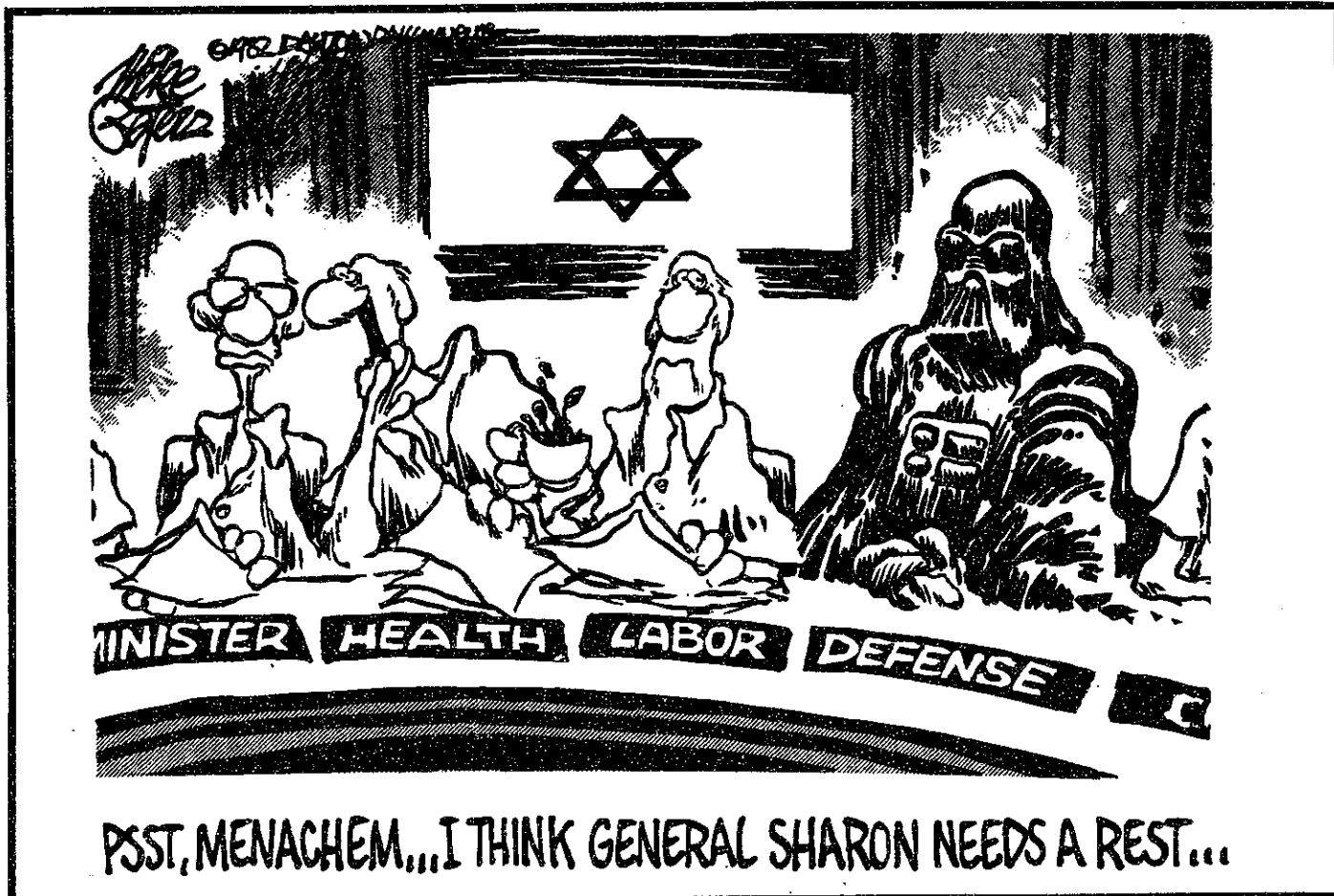
The Office of the Dean for Student Affairs can improve both the credibility and the outcome of the R/O Week experience in three significant ways. Acknowledging the virtue of being honest with students while accommodating their concerns is the only way to insure the success of the residence selection process.

First, the practice of allowing women to select multiple first choices on their housing preference forms should be discontinued. This practice serves no real purpose except to make it appear, artificially, that more MIT women receive their first choice housing preference than actually do. It is both illogical and impossible to have two first choice living assignments. Continuing this outmoded system serves only to perpetuate arbitrary distinctions between men and women at MIT.

Second, ending the "limbo" period after only three tries at assigning permanent housing leaves too many residents dissatisfied. Currently, students end up in dormitories they rated sixth or lower on their housing preference cards, especially in years such as this, when the housing system is extremely overcrowded. This situation arises even though students continue to pledge fraternities throughout R/O, opening presumably desirable spots in the housing system. The Dean's Office should revert to its previous practice of allowing four rounds of the housing lottery, rather than making permanent assignments after the third round and using spaces that open subsequently to remove students from overcrowded rooms.

Third, the Dean's Office should attempt to ensure the ratio of incoming men to women assigned to coeducational dormitories reflects the overall composition of the freshmen class, rather than having the ratios of men to women vary between one to one and thirteen to one. The current practice of continuing to assign women to popular facilities, while not sending women to other houses, leaves some women stuck in living arrangements that include few other women. Such a practice is not beneficial to men or women. The Dean's Office should heed the advice it offers to houses that wish to institute coeducational living when it makes housing assignments.

Adoption of these three changes would make the residence portion of R/O more satisfying for incoming students, guarantee healthier living arrangements for dormitory residents, and might increase the credibility of the Dean's Office.



Column/Mark Timpler

Do not forget Poland's plight

This week marks the second anniversary of the birth of the Solidarity Labor Union in Poland. As the situation in Poland moves off the front pages of the newspapers, it is important that we remember the events that have taken place in that troubled country.

After years of economic hardship, the oppressed Polish workers, exercising an unprecedented right to organize independent trade unions, went on strike in August of 1980, and demanded a better life for themselves and their families. Then, just a few weeks later, the Polish government signed an accord with the labor leaders, and the Solidarity Union became a vibrant reality. By the year's end, ten million Poles had joined Solidarity, and it appeared that the Polish people could finally look forward to a better tomorrow.

But the future dreamed of by the Polish masses threatened the power of the regimes in Warsaw and Moscow. The aspirations represented by Solidarity clearly revealed the moral bankruptcy and economic ineffectiveness of the Communist system. As Marxist dogma was turned on its head, dictators throughout the Soviet orbit shuddered at the thought that the enslaved workers in their countries could unite and throw off their chains. Communist rulers rallied together and called for the suppression of the "counter-revolutionary" (freedom-seeking

instincts of the unarmed but hungry Polish people.

After a year of high hopes for Poles, on December 13, 1981, the men in the Kremlin put their foot down and squashed the pesky Solidarity Union. Their puppet in Warsaw, General Jaruzelski, imposed martial law and arrested the leaders of the Solidarity Union. Since that time, the stagnant Polish economy has slid further into the muck, and the Polish people have gone back to silent prayer and quiet hopes for a taste of liberty.

The American media has now become bored with Poland, and the plight of the Polish people is fading from the public consciousness.

in our country. But it is important that we not forget Poland.

We must remember that the workers in Poland, like the freedom-fighters in Afghanistan and the men that fought in the American Revolution, have a cause that is just. When we look at the sullen peasants in Poland, the lonely rebels in Afghanistan, the enslaved people of Vietnam, and the regimented citizens of the Soviet Union, we can thank God for the freedom we enjoy in this country. We are blessed with liberty that most people can only pray for. It is good to recognize that every once in a while.

feedback

Dean's Office statistics on dorm assignments were confusing

To the Editor:

At this time every year freshmen and freshmen get their housing assignments. For them, this is one of the most important decisions they will make in their four years at MIT. For the R/O workers, the Dean's Office, and the houses themselves, it is one of the greatest responsibilities. For this reason, the discrepancies that appear in the chart on the front page of Wednesday's *The Tech* are very important.

By subtracting the number of freshmen who were assigned to a dorm from the number who listed it as their first choice, the number of men who did not get their first choice is 190. By subtracting in the opposite order the number assigned to a dorm not their first choice is 78. 190 - 78 = 112. Therefore, there should be 112 males still in limbo as of Monday night.

By doing the same for women, (Please turn to page 5)



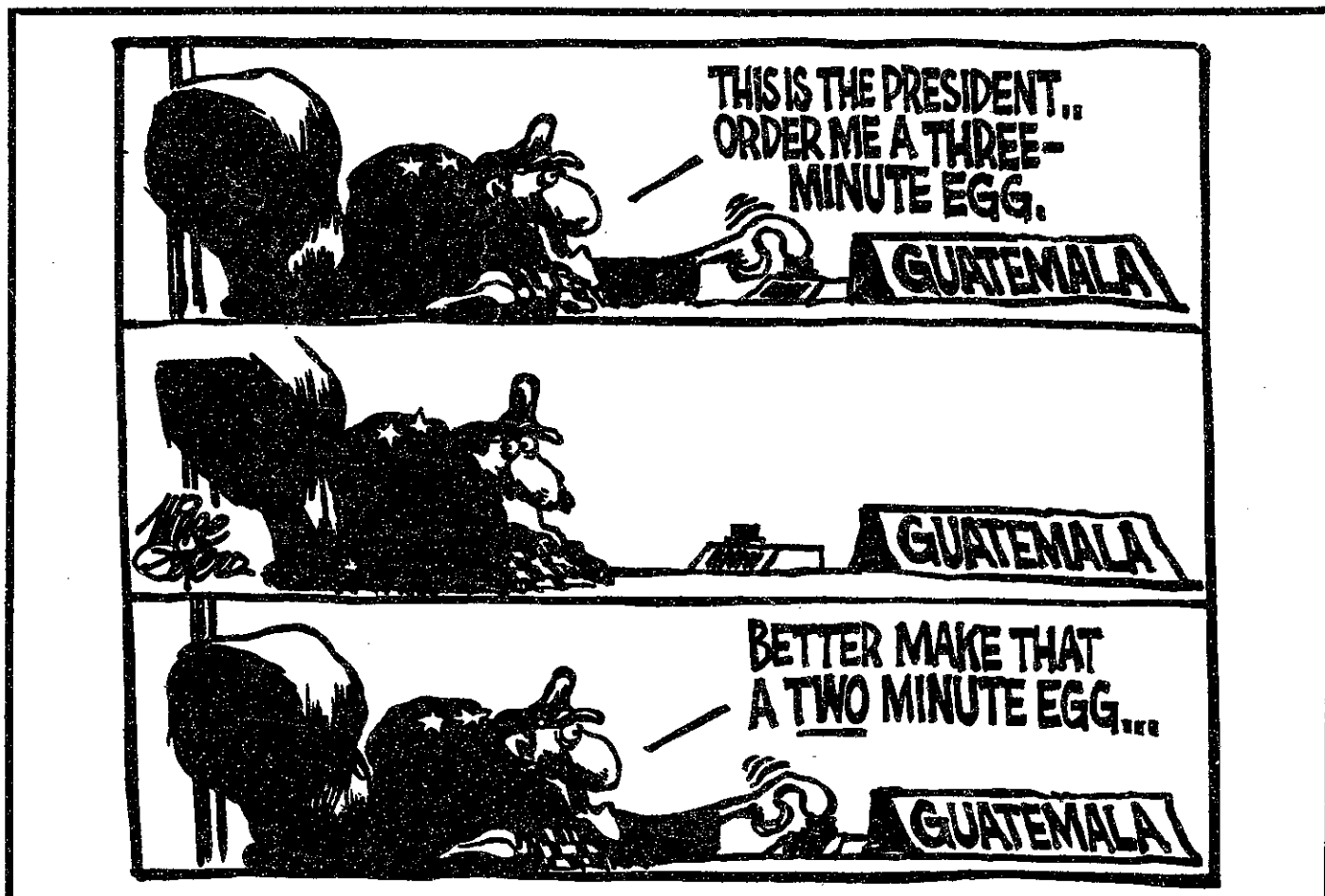
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Freshwomen's assignments are poorly distributed

(Continued from page 4)

there were 5 who did not get their first choice, and 17 who were assigned to a dorm other than their first choice. 5 - 17 =

Sexist column is insulting

Dear Sirs:

Much of what you publish offends me, probably because you fallaciously believe that since good journalism can sometimes be offensive, offensiveness must be good. But little has approached the insulting level of Robert Malchman's column of August 27. Mr. Malchman apparently thinks the sole purpose of females at MIT is the enhancement of his sex life.

The publication of this column, in the very first issue of *The Tech*, can only serve to perpetuate Mr. Malchman's bizarre notion, and does a disservice to the entire MIT community.

Robert Gross G

Robert E. Malchman replies: (from Webster's New Twentieth-Century Unabridged Dictionary) *satire* 1. a literary work in which vices, follies, stupidities, abuses, etc. are held up to ridicule and contempt. 2. the use of ridicule, sarcasm, irony, etc. to expose, attack, or deride vices, follies, etc.

(Editor's note: I find it extremely ironic to receive mail complaining about sexism addressed "Dear Sirs." If Mr. Gross had looked at *The Tech's* masthead any time in the last year and a half, he might have noticed the editors-in-chief of both Volumes 101 and 102 have been female, and several members of the newspaper's managing board are women as well.)

Take 17.201J

To the Editor:

While I am hardly an expert on answering the questions freshmen tend to ask most (see Robert Malchman's column dated August 27, 1982), I am delighted to welcome those students who take his advice to enroll in 17.201J (Politics and Public Policy), for whatever reason they may choose to do so.

Michael Lipsky
Professor of Political Science

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-12. Note this is *negative* 12. There are only 112 males in limbo out of 114 total. This means 2 women must be in limbo—make that negative 14. This leads me to wonder where the other 14 women came from. Perhaps the chart was misprinted, or perhaps there was a serious error in room assignments. If the chart is correct, why were the room assignments done the way they were? 11 women will be living in Burton who did not list it as a first choice. They could not all have listed it as a second or third choice—after all, only 5 women did not get their first choice. East Campus received 5 more women than

listed it as a first choice—French House received one.

The chart also points out many other facts. 82 men who wanted to live in Next House couldn't, but all the women could. 52 men who wanted to live in Baker couldn't. But only 3 women were not allowed. Houses which received small ratios of women to men did not get any women in the second round. I understand there is a lot of talk about letting women live where they want because life at MIT is tough for a woman and all that—I should understand, because I am a woman. It's hard not to "have a woman to talk to" and it's no fun to

go to a party alone and get picked up by 20 guys. But just think for a moment. I would by far rather live in my second choice dorm with 20% of the freshpeople being women than live in my first choice dorm with the ratio being 1:7, 1:8, or 1:13. If 12 women did not indicate a preference, shouldn't they have been placed in dorms with low ratios for the sake of themselves and the women assigned to these dorms?

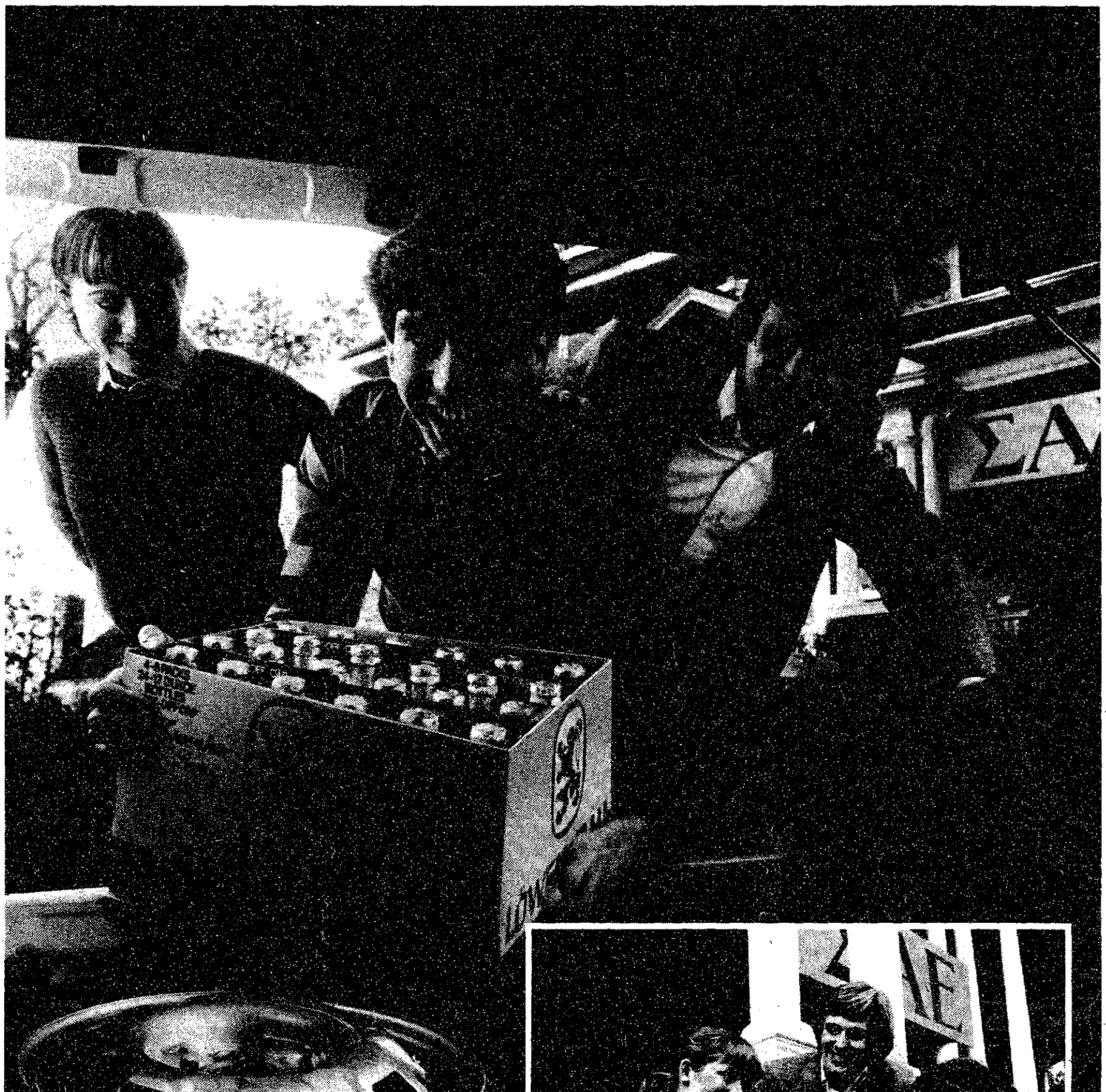
I know this is a long letter—far longer than I intended. But the assignment of the new freshmen and women is important, not just to them but to the entire

MIT community—and therefore deserves the space. I think a more complete explanation of how the freshmen and women were placed and where this error came from is in order.

Diane Johansson '82

We were quite aware of the discrepancies in the numbers at press time, but did not find out until somewhat later that the "total assigned" figures as provided by the Dean's Office included transfer students. For example, of 71 transfer students to check in at the R/O Center, 20 pledged fraternities, and another 40 were assigned to dormitories—thus the "extra students".

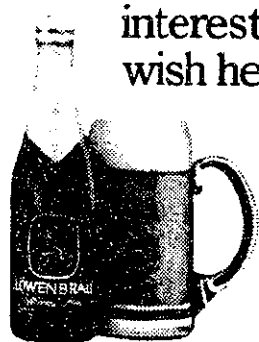
When a good friend borrows your car, the tank may not come back full. But the trunk does.



When you get paid back with interest like this, it sort of makes you wish he'd borrow things more often.

Open up a few cold ones and toast a guy who really knows how to return a favor.

Tonight, let it be Löwenbräu.

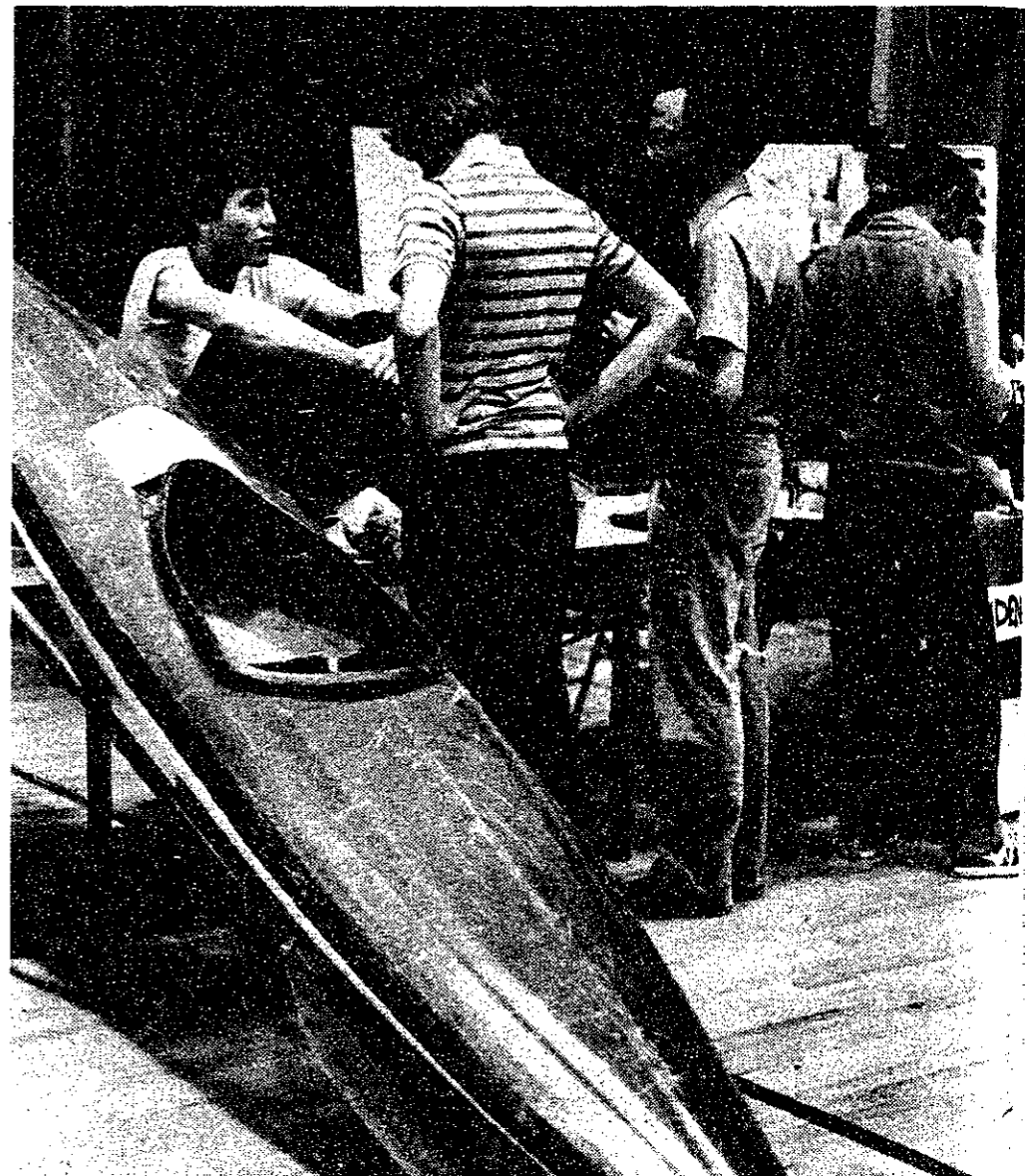
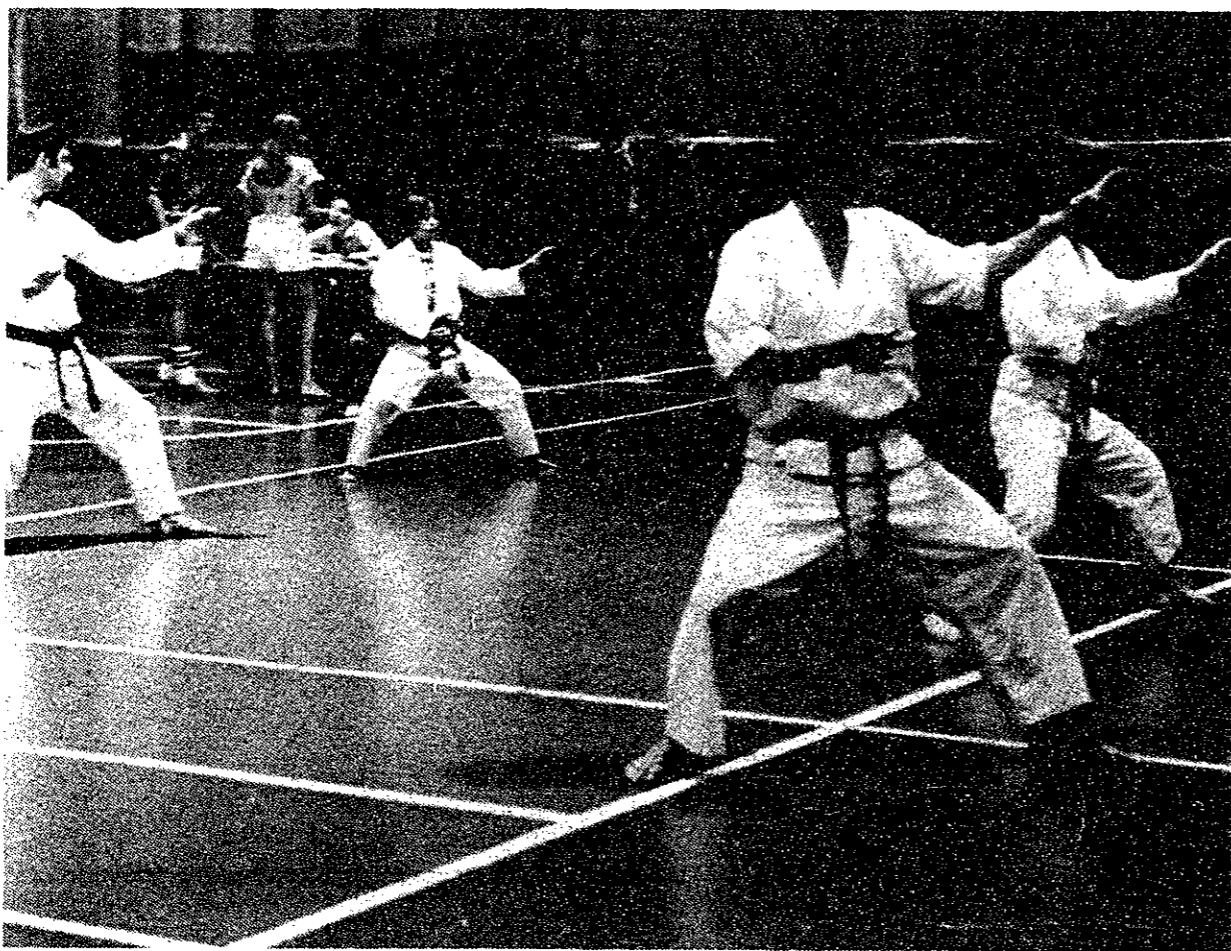


Löwenbräu. Here's to good friends.

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a night at the midway



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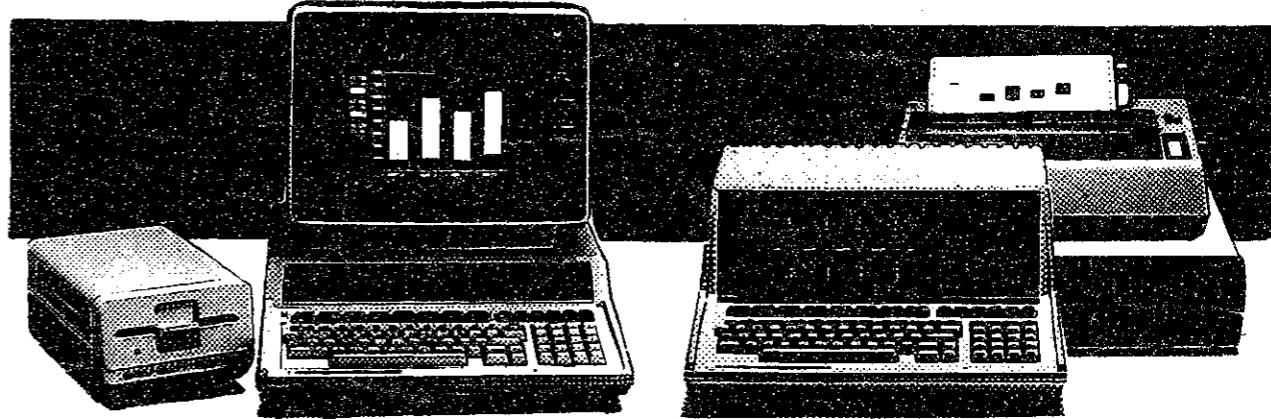
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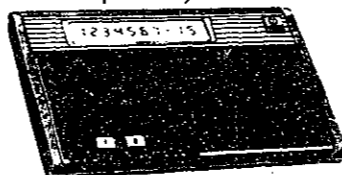
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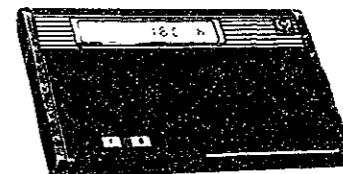
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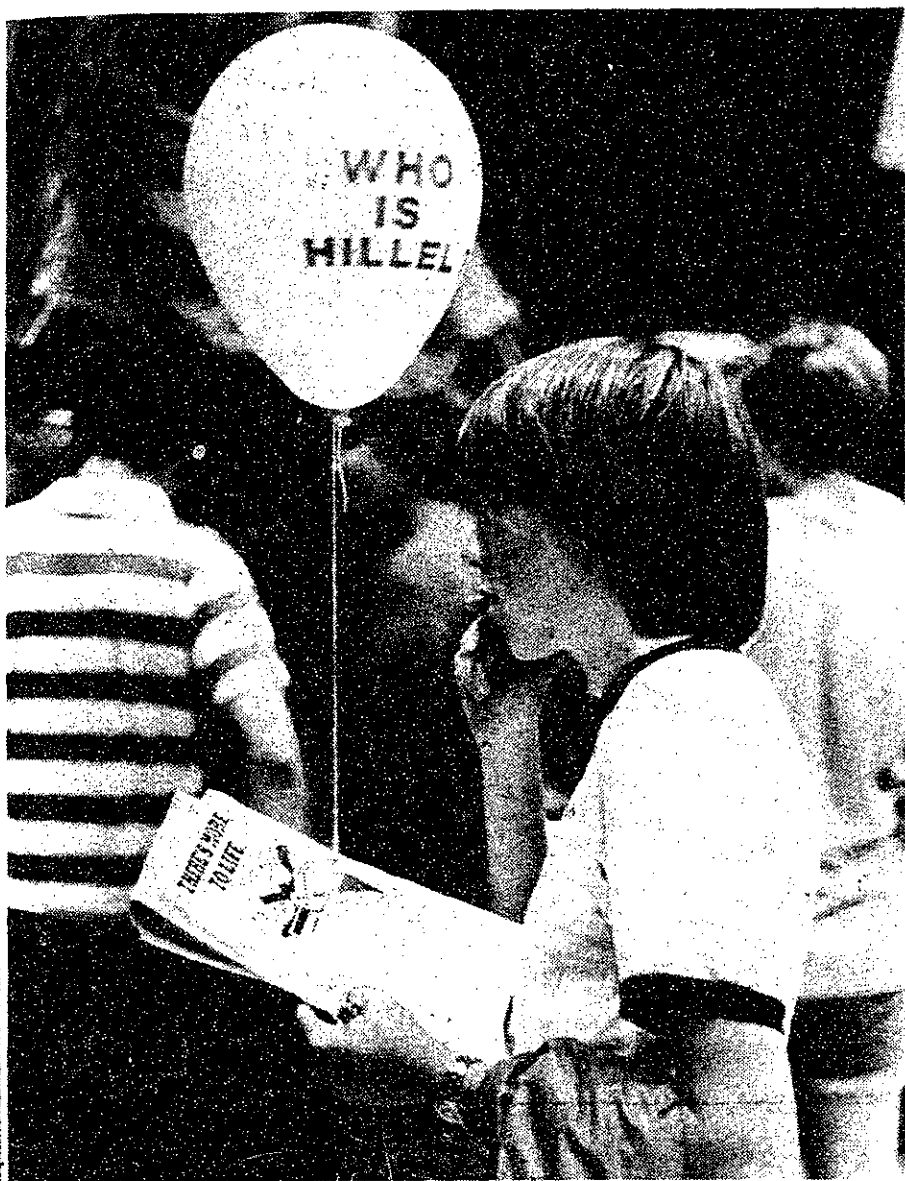


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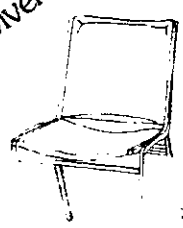


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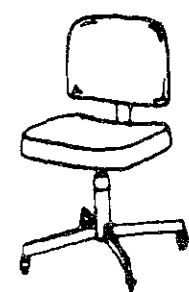
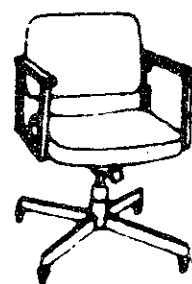
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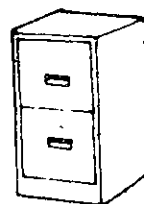


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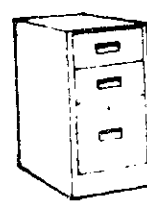


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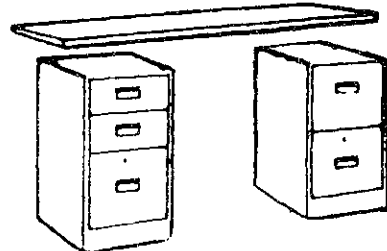


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