Sick of school? Tired of the instructor’s monotonous voice. Lecture days? Today is the last day to drop classes without penalty. See the registrar for details.

Vol. 61, No. 6

Technology News

October 27, 1968

Want to join ISA? You decide!

Dual ballot also picks Ball queen

The polls will open Wednesday morning and remain open until Thursday evening to allow the students to decide two vital issues. Affiliation of Illinois Tech with the American Society of Mechanical Engineers and the selection of the five finalists in the competition for queen of the Integral Ball will be decided on as the students cast their votes on two separate ballots.

Open from 8:30 a.m. to 10 p.m. on each of the two days, the polls will be located in the second floor lobby of the Student Union. Presentation of the ISA identification card is the only prerequisite to voting. All registered students, whether they are undergraduates or graduates, are eligible to vote. The Institute of Design students will do their voting on the North Division campus on Tuesday, with the Illinois Tech election committee spearheading the polling. The integral queen picture will be displayed at ID Mon.

The decision, whether or not the institute belongs to the American Society of Mechanical Engineers, was left up to the students. Both the Student Union, presenting their name, will be put in the ballot box by the Student Union. Presentation of the ISA identification card is the only prerequisite to submitting the question to a referendum. A simple majority of those voting is required to make the proposal an amendment to the constitution.

ISA is an organization of student body students, represented through their student government. Its aims are "to maintain academic freedom, to develop better political standards, and to develop better students." At the present, 340 students are members of ISA.

Confidential information has been shown to the students on the question of affiliation, and the members of the motion have maintained that the institute's income will come to a value as a medium for the exchange of ideas. They are present in order to incorporate their ideas, and ideas for improving the Illinois Tech, will be the focus of the executive committee.

Room Service will provide mirth for all

So you think you can handle this? A 24-by-24 room up in the attic is available downstairs. Can you define the situation? That's right—it's downstairs.

Lack of cash is your worry but there is another on campus that it is even more important. It is the health of your loved ones. If he or she is a student at Illinois Tech, you have protection. If you need a job, you have your landlord if you don't know what to do. If you are already in the game, you have some useful hints on how to get it done without breaking the bank. And, if there is a chance of a job, you have the opportunity to stay at the job.

Get your tickets at the SIC box office. The English department, from any number of Campus Players, will sell you a seat because it is first come-first served for "Room Serv-"
Another opinion

To the Editor:

It is a happy and joyous thing to see the occasional goofy colored cheerleaders that bed in and out of the football student body that tend this mundane campus. Ah, when the standing handsome faces of these elite, our school spirit can no longer contain itself. I know one, huh, hurrah, oh it is good to go college. Just think of all the colors that we have when the fractrines, our get their beannies. Goody, goody!!!

I want to suggest that we all look at these beanie caps. These are certainly beautiful. Is this silly. How else could our active term be held without a beanie? How else could we know who are the most important and active in school activities?

Also, it is an old axiom that a community without two distinctiveness needs to be advertised to be sold. How else could a fraternity get new men?

As we are all learning, a fraternity is a factory. I have school spirit. Less learning provides more opportunities. Hip Hip Hooray Forever, Rimbal Nudged

The opinions expressed above and below, especially those of the editor, are the editorial board as a whole, but of individuals. Technol News always welcomes writings for publication.

Is the NSA expenditure justified?

Yes! says Don Lynch

The question before you this coming week is one that is important to many. The question is the NSA expenditure.

This question of NSA affiliation is analyzed as:

FOR THE ORGANIZATION:

IT students could prove in a national organization their realization and the execution of their responsibilities as students in the educational work.

ITSA and student groups could fully exchange ideas and methods which would result in improvement of student government and student activities.

IT would take part in a working program by the nation's students, and for the nation's students. A program including the National Student Art Tour, the National Literary Magazine "Essai", the foreign tour and exchange program, etc.

And finally, six student observers who learned about NSA. They scrutinized affiliation vs. non-affiliation. And all student observers reported recommending affiliation.

AGAINST THE ORGANIZATION:

A feeling on the part of a few fraternities men that NSA's desire to work towards the elimination of discriminatory classes in education will not be to their advantage.

A brief of minority objections on the part of those who know next to nothing about the organization. As an example of a typical objection: "We shouldn't join NSA, for it has no continuity." (As today's headline should say to the editor of the point across to those of us who are thus..."You Don't Really Want to Join NSA, Now Do You?!"") The answer to the continuity example question is quite simple. NSA has all the continuity the representatives of 200,000 students wanted.

It has an alternating office system of six taking office in September and three weeks later he will work on the operating difficulties. Its non-voting advisory board (with men like Everett Baker, dean of students at MIT or Father Vincent Flynn, president of the American Association of Colleges) provide a steady advising to NSA's long range programs. And finally, the congress delegates realized that if NSA is to represent the current views of American students, continuity is not only relatively unimportant but actually undesirable. Another example of the objections: This I heard at an IFC meeting last week. "Why pay any attention to the recommendation of the six observers when one who was not against the affiliation was sent down there?" Again the facts of the case: There were two favorable to the organization (myself and Lois Field); two had completely open minds (Val- luary Kaiser and Dick Worklet); and two were against the affiliation (Ted Spack and Noma Kaisi). Six returned recommending a new. One after another those eloquent objections stemming from lack of knowledge of the organization are brought up or are inferred. (For some beautiful non-affiliation inferences don't miss page one's editorialized newspaper about NSA.)

The statement that NSA costs too much for poor old ITSA's budget is next. For weeks now the more political of NSA's opponents shout: "Sure, I agree NSA is great. But that is good would be if we had money. But look at ITSA's budget. It just can't stand a $600 expense or even the $200 additional expense for affiliation." Again the facts of the matter: Until last Wednesday no one but the ITSA treasurer and myself had any facts on which to base a statement on decrease in ITSA's funds. Moreover, as Wednesday's finance report shows, our yearly income will decrease about $3,000, but our two largest expenses alone, the integral and Technology News, will decrease over $1,000 and $1,000 respectively.

So don't let the cartoon on this page undo influence you. ITSA really is in trouble. The finance committee report Wednesday made arrangements for a rescue in case we join NSA. And yet they still appropriated enough money so there will be a good Technology News and a top notch integral.

I hope this article will help you to understand the politics of the NSA discussion. I further hope that you will get a copy of the information on NSA that is being passed out and look through it.

Donald Lynch, President, ITSA

October 27, 1959

as I see IT

by DON LYNCH

ALL YOU TECHAWKS who have been accused of apathy have an opportunity to make your voices heard in the near future. Full participation in the election for Integrate, Ballots are scheduled for the NSA affiliation amendment which will decide if we are locked over our greatest problem—lack of interest in student affairs.

On the other hand, you can also find some other amendments awaiting approval. They were drafted by ITSA, since it was decided that the other general elections, but they must receive the final green light from the student body in order to make them legal.

HOLD IT MAC! Don't make that decision without thinking it over. The night before until you're sure you know all the facts, the big holiday's coming off. With Nov. 9th coming on Thursday, there has been nothing but confusion for those die hard anti-Roosevelters who feel that should be the day. Al Paine, the registrar's office, and the printers of about half the existing calendars must fall in that category, because the mastheads of the Bulletin, as mentioned calendars all fall into the same category.

Take it straight from Technology News, Nov. 23 is the date for dates.
Don't hesitate to alter major-Kroh

Otto J. Kroh, Psych 8, is one of the examples of IIT's rapidly vanishing Americans. Within the next year practically all of IIT's veterans will have left the school to further their endeavors in industry or answer once more to the call of "Hup, toot, thump, fear.

A veteran of three years in the field artillery, Otto was sent to Luzon Island in the Philippines, but while he was in mid-Pacific the war was declared over. This didn't stop the army (nothing else), for Otto stayed on Luzon for 13 months. When his tour of duty was over, he entered IIT as an ME co-op. However, at the beginning of his junior year he changed his major to Psychology. To quote Otto, "If people come to study at a school, they should make sure that their majors are what they really want to do, and are capable of doing. However, if they find that they are in the wrong field, they shouldn't hesitate to change," stresses that the person will be much happier and more successful in the end. If he doesn't have his heart

Stickie No. 1
Voice from passing car: "Engines trouble?"
Voice from parked car: "Hops."
Voice from passing car: "Fire down?"
Voice from parked car: "Didn't have one."

Campus Interviews on Cigarette Tests
Number 4...THE COMMON LOON

"Don't be silly! What do you think I am...a goose?"
by all those tricky cigarette tests you hear so much about! A fast puff of this brand—a sniff of that. A quick inhale—a fast exhale—and you're supposed to know all about cigarettes. No! You don't have to rely on quick-tricks. The sensible way to test a cigarette is to smoke pack after pack, day after day. That's the test. Camel asks you to make...the 30-Day Mildness Test. Smoke Camels—and only Camels—for 30 days. Let your own "T-Zone" (T for Thrust, T for Taste) be your proving ground. And when you've tried Camels as a steady smoke, you'll know why...

More People Smoke Camels than any other cigarette!
New structure-testing device in grad school

Under the supervision of Dr. E. Donnell, director of the Fundamental Structures Laboratory, experiments are being conducted concerning the magnitudes and effects of initial defects in structure sub-process to buckling. The long-range project will eventually cover various types of compression elements. A special apparatus has been constructed for applying load increments to the structures and will be improved as more extensive studies are undertaken at this fall. This apparatus consists of four components: A loading device, a detection measuring unit, an optical system for measuring the rotations and the moments at the ends of the struts, and a frame for supporting very slender specimens.

The first year's work on this project consisted mainly in the construction and testing of the previously mentioned special compression testing apparatus for slender struts and the development of the techniques needed for the new method of controlling and measuring any small conditions which the apparatus provides. Progress has been made on determining the geometric and equivalent geometric deviations from straightness by Southwell's method. A series of tests have been run with one very slender cold-rolled steel strut under simulated dead and live conditions. The strut was gradually shortened, and the relation between equivalent geometric deviations and the length determined.

Slipskirt No. 2

Said the rabbit to his mate: "This is a wonderful love affair — wasn't it?"

only $3.95

Wear it open! Wear it closed! It looks swell either way! It's the ideal shirt for your all-round college life! Sanitized—labeled (no ashamed worried!). Mitsa cut for tapered body fit. Come in for your Doubler today!

Lyttone's

FOR ARROW UNIVERSITY STYLES

For Your "Double Life"

New Arrow "Doubler"

It's easy to quick-change with the "Doubler." For lounging, for sports... wear the collar open. Close it, add a tie... and you're set for class or date. Try it!

$3.95

ARROW SHIRTS & TIES
UNDERWEAR • MANUALSHEETS • SPORTS SHIRTS

VENUS DRAWING PENCILS

the world's largest manufacturer of DRAWING PENCILS

Turn is instantly tested, tests with Venus Drawing Pencils hold their point and get you the line for sharp clear reproduction. SMOOTH. The line is weight and time because the graphite is Venus Drawing (Venus, a blending weekly in the Cubo). STRONG. Venus Draw on Premium Quality" which tested so that the leads are broken in the words over or need strength to make a drawing. ACCURATE. Your work is the only quality a Venus Drawing Pencil, and leaves a character at each step in a given uniformly graded in all grades. For better results, use Venus Drawing Pencils, and come to the factory (and to your college store). *Available Venus Pencils

SEND
FOR THE HELPFUL
INSTRUCTION BOOKLET
Try Venus on your drawing board!

The Venus Drawing pencil is the only pencil that tests at each step in a given uniformly graded in all grades. For better results, use Venus Drawing Pencils and come to the factory (and to your college store).

*Available at your college store.
Hank fractured, waxy MC to blame

Later the pride of IIT, the highly polished but slippery floors of the MC building claimed another victim October 15. Malicious rumors to the contrary, it wasn't Hank's hands that broke a fall.

President Hank slipped and fell outside his office and suffered a fracture of his right elbow. The broken wrist is in a cast as required surgery. The operation was performed at Mercy hospital, where President Hank was reported to remain for two weeks but a combination of high pressure salaries and rapid improvement allowed him to go home last Tuesday.

It is still too early to tell when President Hank will be able to return to Illinois Tech.

Slipstick No. 3

"Murphy, Murphy," called a hillbilly to his hillbilly dog. A bystander struck by the name spoke up, "Sure you mean Murphy," he said.

"No, man," she said. "Her full name is Murphy, the Destin Murphy!"

"What makes you call him Murphy?" asked the stranger.

"I don't know. I just always have. He's thedestinest of the Destinest."

"It's because I have a habit of talking to my dog's name him 'hit one day I hear two gentlemen talking about me one says that murphy camed from a wild puppy. Well, he became far worse than that boy's.

ASME hires bus to visit tractor plant

Plano have been announced for a field trip to the Allis-Chalmers plant in Milwaukee, Wis., by the American Society of Mechanical Engineers. The trip is scheduled to take place Tuesday, November 2.


Senior photos to be taken on campus

Dan Gilford, photography editor of the alumni magazine, announced that beginning November 6, senior yearbook photos will be taken on campus.

October 30 through November 3 has been set aside for the scheduling of pictures. A list of the times available will be on display in the PISA office, second floor SU. The only requirement is that the senior sign, for the date and the time on the schedule. The pictures will be taken in the Inter-Honorary council room in the basement of Chapel hill.

It is urged that seniors avail themselves of this opportunity to have their graduation pictures taken. As usual a small fee will be charged at the sitting.

Newman club to hear talk on Communism

The next meeting of the Newman club will feature Dr. Arthur Kassen, who will speak on "Communism in Europe." Dr. Kassen was a former governor of central bank of Hungary, and is now professor in the department of law and economics, DePaul University. The meeting will be held Wednesday at 5 p.m. in 103M.

NU expert to give lectures on sex

Westminster Fellowship foundation is sponsoring a series of five lectures entitled "Marriage and the Family." The lectures will be given by Dr. Franklin R. Pitch of Northwestern university, who is chairman of the Illinois Institute of Social Hygiene. Dr. Pitch has presented this same series of lectures on many college campuses, including Northwestern and the University of Illinois. The titles and dates of the five lectures are as follows:

Nov. 3—"Why Marry?"
Nov. 10—Choice of a Mate: Religious and ethical aspects of marriage
Nov. 17—The engagement period and family planning
Dec. 1—The wedding and honeymoon (movie, Human Reproduction)
Dec. 15—The next generation and its training (movie, Human Growth)

The lectures will be held in ICCB at 7 p.m. The entire campus community is invited to attend upon a donation of 50 cents for the series. Tickets will be available early next week at the SU ticket booth or may be obtained from any member of the foundation.

Slipstick No. 4

There was an old woman who lived in a shoe.
She had so many children, she didn't know what to do—Obviously.

CAMPUS BARBER SHOP
AUDITORIUM BALCONY STUDENT UNION

Halves by Appointment — Ext. 570
SHOES SHINED

HOURS:
2:00-6:00 Monday thru Thursday
2:00—5:00 Saturday

Two Barbers
Gross Pirfalco, Mgr.
Meet your coaches

Swimming coach Makieliski is former Tech diving star

By Ken Watson

The coach of the Tech swimmers, John Makieliski, says he took up swimming and diving because it is a clean sport. Regardless of your reasons for starting, hardly anyone stopped him after he did. John has turned 12. He picked up many points in the sprints and relays, being a member of a free style quar-
tet that held an IIT record, since broken.

In Makieliski's first season as full time coach, the squad placed a 3-3 record. The 1950-51 campaign was the outskirts by the swimming star himself, oathed much of his success to Makieliski's excellent coaching effort.

A blushing member of 3 months, John was in nearly every honorary on campus, including Honor I, Tan Bota 4, TVA Sigma, and Black Knight. His list of activities was staggering, and people never understood how he did it. John still does it in his job as registra, receiving wide acclaim as the young registrar at any midwestern college. He likes to sail—has 2 boats, and won the 1949 Indiana-Michigan National 1 fleet crown. John thinks outside activities help a student in later life and he also hopes to see the day when IIT students get real support to our hardworking teams and athletes. When they do, says he, it will no longer be a joyless factory and street-car school, but a rip-roaring, spirited college that doesn't know what apathy means.

Kapke enters tennis semis; Gremlins squeeze by Lugs

Intramural tennis competition gained another semi-finalist when Bob Kapke swept over the

second and quarter-final opponents with apparent ease. In the quarter-final, Kapke triumphed over Jack Levitt, 6-4, 6-3.

The week's third match found Jack Friedlein beating Bob Hansen. The first three rounds are now about complete and the finals will be started immediately.

Action in the EM football league reached a peak during the past week with last year's champion, The Gremlins, edging the Lugs 14-6, while the PPCP eliminated the Fish from further competition, 6-0. In another action, the Fishmen whipped the Gooney Boys, 40-0.

The Gremlins had trouble last Saturday in beating a foe that had easily given them their second week from Fishmen A. C. Previously postponed because of the rains I moved, the contest had to be played at the usual time of noon, Saturday. Despite the poor field, both squads were up for the game.

A pass from Bruce Tenatt to Wes Dorn climax a sustained drive by the Gremlins. The score, set up by Jerry Maxman's running and the blocking of the end zone, was successful, giving them the winning margin. The extra point, like the T.D., came on a pass from Tenatt to Ocampo.

Stalled by a hard charging defense throughout the first half, the Lugs finally began to click. Bill Lane, one of the Lugs' top athletes, scored on his team down the field and then his Primo Byrdhay in the end zone for the first half only score. However, Joe Leek broke up the Gremlin's only attempt at scoring in the second half.

Jimmy Moen's 2-yard TD run turned in a winning touchdown. The extra point, like the T.D., came on a pass from Tenatt to Ocampo.

The Alpha Xi's continued their winning ways by trouncing previously unbeaten Phi Kappa Sigma, 21-4. The Alpha Xi's were no match for the effective blocking of the Alpha Xi's and the relay of the Alpha Xi's offense had them completely halted.

Theta Xi, led by the pasting pass combinations of Rettmann to Kurtz and Genzot to Kurtz, stunned Sigma Alpha Mu Monday, 13-8. Bedrockman, playing solidly, was helped by the effective blocking of the Alpha Xi's and the relay of the Alpha Xi's offense had them completely halted.

Gym open to IMIF basketball practice

Fraternity and Intramural basketball teams who desire to use the gym for evening practice before the regular season commences may reserve it by contacting Sonny Weissman in the gym office at any time.

At the present time, the fraternity teams are drilling for the approaching tournament, scheduled to be the basketball tournament, which ends on November 15.

Intramural Director Ed Glinany is interested in seeing some of the Intramural and Interfraternity teams, such as the Ramblers, Gardner, Jerry Maxman, and Carl Weissman, play in the Intramural basketball tournament, which ends on November 15.

Mount their goals playing in the intramural leagues.

As an end to the basketball season, the Intramural News All-Star (FFP) league is playing with the participants picked by a vote of the referees and officials of both teams. A trophy is also given to the team of each league, and individual awards are presented to all team members.
Kretlow captures Esquire as Prophets first prize

By Len Kahne

The way things have been going this season it's getting so that any team can win even if they are two touchdown underdogs. Last week's contest saw the prophets go down to defeat by Purdue with ease. Out of all ten. Of course one picked the Georgia-Indiana State game to end ...present a formidable problem; but then who knows what tomorrow's result will be.

At the top of the chart for November 6 the Alabama-Crimson Tide tops the Georgia Bulldogs in the top college game conference. Both teams have shown power, but at other times have also been very inept.

On the West Coast WashingtonAssignableFrom with the Golden Bears from California; the contest should be one of the best games that will be played on the coast this year since both teams are undefeated in conference play. Standard players were for Southern California and the Indians should give Coach Jeff Cravath's Trojans a good going over. Last week both teams were upset at Navy's attack proved too much for the boys from sunny California and UCLA surprised almost everyone as they thumped Stanford from the ranks of the unbeaten.

Notre Dame, the powerhouse of all, was last year, tangler with Navy in Cleveland's pro- cedent Municipal Stadium. This is the Irish's best chance to emerge themselves for the many defeats the Fighting Irish have handed them.

A full slate of Big Ten games are scheduled for this week. So far the race in the conference titles has been to equal a modeste as the favorites keep getting beat down, week after week.

Michigan, who has already taken two programs from our this year, meets Illinois at Ann Arbor, with a record of over 25,000 expected to witness the contest. Illinois has not lived up to its pre-season predictions, mainly due to the fact that the quarter- backing has not been too good. Michigan, on the other hand, has the strong team that was expected of them, but as long as they have had to prove.

Ohio State and Northwestern, both undefeated in conference play, meet at Chicago Stadium, which will team with alumni in the conference.

Indiana, conqueror of Notre Dame, tanglers with Michigan State in a non-conference game, while Wisconsin hosts the Purdue Boilermakers, who have yet to win a game after their tremendous victory over the Fighting Irish.

Down in the Southwest, Southern Methodist's Mustangs look to be the Timex in a national contest in the Southwest. But on the other hand, has shown a more potent offense with each game they have played and should be up for this game.

STOP! LOOK! LISTEN!

NEW, REVISED, COMPACT EDITION
TECH CENTER DIRECTORY
ON SALE 1ST WEEK OF NOVEMBER

WE ARE THEN ALL!

PHILIP MORRIS challenges any other leading brand to this test:

HUNDREDS OF THOUSANDS OF SMOOKERS, who tried this test,
report in signed statements that PHILIP MORRIS is DEFINITELY
LESS IRITATING, DEFINITELY MILDER!

1. . . . Light up a PHILIP MORRIS. Just take a puff—a short one— and hold it for a second or so. Notice that bite, that sting? Quite a difference from your brand?

Other brands merely make claims—but PHILIP MORRIS invites you to compare, to judge, to decide for yourself.

Try this simple test. We believe that you, too, will agree . . .

FUTURE MORNINGS is, indeed, America's FINEST Cigarette!
How loud is loud? Noise phenomena investigated in Parmly sound lab

By Dene Blunk

Surely a thunderclap is a loud noise, but from the scientific point of view, how loud is "loud"? The research work of the Parmly Sound Laboratory at the Illinois Institute of Technology is directed by Professor Peter J. Mills. The physical department serves to clarify and measure upon many of the factors relating to acoustic phenomena. The function of the laboratory is to carry out research in the prevention and alleviation of deafness.

At present, the sound laboratory staff is engaged in work involving the remediation of the threshold measurement. The "threshold" refers to the smallest amount of sound energy that a human ear can detect. The threshold of hearing varies among individuals and to general decrements as the person grows older. In addition, the threshold of hearing varies between frequencies.

Over a period of years, the science of acoustics has advanced considerably. The advent of more efficient measuring equipment and techniques has made the determination of the threshold of hearing more accurate and mandatory.

The tests were made on persons of various ages from the ages of 15 and 25.

The average student, being within this age group, could hear sound ranging from low frequencies of from 15 to 15 cycles per second to frequencies of 5,000 cycles per second.

Sound energy is expressed in microvolts per square centimeter. The relative intensity of different sounds is expressed in decibels. A sound level meter measures the intensity of sound directly. The following comparisons show the relation of the decibel scale to common sources of sound: A whisper at 3 feet is 30 decibels; normal conversation at 5 feet is 60 decibels; light traffic noise at 6 feet is 65 decibels; light traffic noise at 6 feet is 70 decibels.

The main feature of the Parmly Sound Laboratory is a 65-room chamber of soundproofed construction suspended on Neoprene pads which serve to deaden the interior room, or sound chamber proper from earth borne vibrations.

The walls, floor, and ceiling are lined with acoustically treated fiberboard wedges. A system of removable soundproofed panels is installed. The door to the chamber is of a noise-permeable character. When the door is closed, a hermetic seal is formed to form a continuous wall surface. Older fiberboard couplings may be placed over the double glass windows, if necessary.

Noise, to a city dweller, is of such a persistent nature that it becomes unnoticed in time by the person. Burst out all around, and the quietness becomes very desirable. Such is the principal reason for the Parmly Sound Laboratory. Located in the Hearst Science Building, the laboratory has been fitted out with all necessary equipment. The tonal range extends from a single tone to the other.

Voice and musical instruments have been tested. The results have been considered quite satisfactory. In addition, a variety of instruments is available for testing purposes. The ability to repeat is the chief aim of the Parmly Sound Laboratory.

tech timetable

FRIDAY, OCTOBER 17

1 p.m., ENS, cont. B-103, 10:30, ENS, cont. B-103

SUNDAY, OCTOBER 19

1 p.m., ENS, cont. B-103

MONDAY, OCTOBER 20

10 a.m., ENS, cont. E-101

THURSDAY, OCTOBER 23

10 a.m., ENS, cont. E-101

WEDNESDAY, NOVEMBER 5

10 a.m., ENS, cont. B-103

THURSDAY, NOVEMBER 6

10 a.m., ENS, cont. B-103

FRIDAY, NOVEMBER 7

10 a.m., ENS, cont. B-103

CUBS, GWINN, ENS, cont. B-103

CUBS, GWINN, ENS, cont. B-103