

# Announcements

Huk due Saturday





Linear Programming Alg 1: "Try all vertices"  
Given m constraints 
$$C = \{\sum a_{ij} \times j \leq b_{j}\}$$
  
For each subset  $S \leq C$  of size n  
1. Solve for the point of intersection  $X^{X}$   
(solving linear system / Gaussian elimination)  
2. Check if  $x^{X}$  is feasible (satisfies all constraints)  
3. If so, compute value of  $x^{X}$   
Output best vertex found  
Time complexity  $\neq \binom{m}{n} \approx m^{2} = e^{X} pointially large in n$ 

LP alg 2: Simplex  
1. start at a vertex x<sup>#</sup>  
2. Look at all "neighboring" vertices  
3. Find neighbor y<sup>#</sup> with best value  
4. If y<sup>#</sup> has a better val than x<sup>#</sup>, move to y<sup>#</sup>. Repeat -  
n=2: n=3: Constraints EA, B, C, P, E]  
9 Vertex: (ABC)  
Neighbors: ABD, ABE, ACD,  
ACE, BCD, BCE  
2 Fact: Suppose n vari, m constraints  
# of reighbors 
$$\leq (m-n) \cdot n \leq m \cdot n$$
  
3. Find neighbors  $\leq (m-n) \cdot n \leq m \cdot n$   
4. If y<sup>#</sup> has a better val than x<sup>#</sup>, move to y<sup>#</sup>. Repeat -  
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# VCL.CXXIX .. No.44.394

Similar Transportation Bond Issues CARTER SAID TO ASK IRAN'S CIVIL GOVERNMENT OUT:

Are Passed in New York and Jersey FOR LOVALTY CHECK HOSTAGES FACE DEATH THREAT; Fails in Westchester and Mississippi Victors

By FRANK LYNN

By ADAM CLYMER

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By PHILIP SHABECOFF

Special in The New York Times WASHINGTON, Nov. 6 - To the dis-

WISHINGTON, Nov. 6 — To the dis-may and arger of environmentalists, about 1,700 plasts and a hundred animals are king dropped from consideration for protoction as endangered species be-cluse a deadline Congress set a year ago for inserior Department action is about to

pass Department officials say that they have no choice. Last Nov. 10, President Carter signed amendments to the Endan-Cartor signed amendments to the Endan-generi Specia Act requiring, among other things, that if a species had been pro-beed for protection and the agency had not scied to it. If her two years or more, the her management of the strengt operiors in its or it would automatically be dropped. Tati years is on prast Monday, and the agency has mot the amendments' re-glormementa for endy 37 process.

OF AIDES ON POLITICS **OIL EXPORTS BELIEVED HALTED** Simon Wins in Bronx in Races for Governor Ouster Implied for Those Unwilling to Heln His Drive - Strauss

The New York Times

NEW YORK, WEDNESDAY, NOVEMBER 7, 1979

STUDENTS WARN U.S. Avatollah Instructs Secret **Revolutionary Council** to Form a Cabinet

IN JOHN KIFNER

LATE CITY EDITION

Weather: Moardy manny, cosi today; clear, old tonight. Sumny tomorrow. Tempenture range: today 43-51; yesterday 44-56. Details on page A28.

25 CENTS



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Of \$1.18 Billion Oil Overcharges

# By RICHARD D. LYONS

Bestramentes unit mess WASHINGTON, Nov. 6 — Department | Energy Departments | investigators of Energy investigators announced today her filting of formal changes against nine with having overcharged by BA billion major oil refiners, accusing them of hav-from UPA menga 10% major cell refiners. accuring them of hav-ing overcharged the pablic by 1.3 bits lion from 1923 to 1578. Moreover, Adversaria 1920 o libro from 1923 to 1578. Moreover, Adversaria 1920 o conserver spatia up to 253 bitlion to that consumers paid up to 253 bitlion to that consumers paid up to 253 bitlion to that consumers paid up to 253 bitlion to Continued on Page D5, Column 4

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# INSIDE





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### F.A.A. Seeks Fine of \$1.5 Million wither accepted an invitu For 'Unairworthy' Braniff Flights

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A Soviet Discovery Rocks World of Mathematics

The solution of mathematical problems

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# Main Iran Oil Port Reported Closed And Prices of Spot Petroleum Soar

By ANTHONY J. PARISI

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Energy Dept Accuses 9 Refiners Of \$1.18 Fillion Oil Overcharges

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A Soviet Discovery Rocks World of Mathematics

# **By MALCOLM W. BROWNE**

A surprise discovery by an obscure Soviet mathematician has rocked the world of mathematics and computer analysis, and experts have begun exploring its practical applications.

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Apart from its profound theoretical in- series of steps. One class of problem terest, the discovery may be applicable sometimes involves so many steps that it

in weather prediction, complicated indus- could take billions of years to compute. trial processes, petroleum refining, the scheduling of workers at large factories. secret codes and many other things.

"I have been deluged with calls from virtually every department of government for an interpretation of the significance of this." a leading expert on computer methods, Dr. George B. Dantzig of Stanford University, said in an interview, The solution of mathematical problems

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According to the American journal Sci-

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first run for public office, beat former Gov, Louie B. Nazn, who had waged a hard personal campaign against him. Mr. Brawn or into his opposant's

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OVIETS HELP TO DELIVER U.S. FAMINE SUPPLIES: In Kembol the Linited State

Cocaine Traffickers Vote Comes to a 'Homeland,' Kill 17 in Peru Raid But African Problems Linger **On Antidrug Team** 

By ALAN COWELL

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High Cuban Defector Speaks Out, Denouncing Castro as 'Impulsive'

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Triday, he revealed his fr in the United States explaining to a small be was convinced that Mr. Castro has imported by the was convinced that Mr. Castro has imported by the second that Mr. Castro has almost obsessive hatred of the United simost obsessive hatred of the United ities said they were Continued on Page A6, Column I

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INCREASES IN TAXES OF SOME CONCERNS OTHERS COULD PAY LESS Jenreciation Setun Would Re Changed - Little Support in Congress Expected By DAVID E. ROSENBLUM Albany Leaders igher taxes. The poil detailed the depth and a Predicting a Cut

the national swing toward can Party, showing Americ out equally divided betw to identify with them and th ntify with the Democrats. In Income Taxes By JOSH BARBANEL 'Major Realignment' Seen

Republicans and Democrats in A bany predicted yesterday that a cut personal income taxes similar to th

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Single-Digit Top Rate

andard deduction would be put at ederal level of \$2,300 for a single Of Little Use to Others e system allows large write-of ompanies that invest seavily

Homeless Spend Nights in City Welfare Office



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e Bell Labs mathemat mira Karmarkar, has s seroughout Manhattan, the Brooklyn and Queens that ac ases, the families leave the office at 4 or even 5 A.M. for beroughs that will requir

Struggling to Meet News INSIDE als acknowledged the prob-lay, and said they were Tug With 6 Aboard Missing tugioat with six aboard and a barge adel with scrap iron disappeared

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Breakthrough in Problem Solving

# **By JAMES GLEICK**

A.T.&T. Bell Laboratories has made a startling theoretical breakthrough in the solving of systems of equations that often grow too vast and complex for the most powerful computers.

The discovery, which is to be formally published next month, is already circulating rapidly through the mathematical world. It has also set off a deluge of inquiries from brokerage houses, oil companies and airlines, industries with millions of dollars at stake in problems known as linear programming.

These problems are fiendishly complicated systems, often with thousands of variables. They arise in a variety of commercial and government applications, ranging from allocating time on a communications satellite to routing millions of telephone calls over long distances. Linear programming is particularly useful whenever a limited. expensive resource must be spread most efficiently among competing users. And investment companies use the approach in creating portfolios with the best mix of stocks and bonds.

# **Faster Solutions Seen**

The Bell Labs mathematician, Dr. Narendra Karmarkar, has devised a radically new procedure that may speed the routine handling of such problems by businesses and Government agencies and also make it possible to tackle problems that are now far out of reach.

"This is a path-breaking result." said Dr. Ronald L. Graham, director of mathematical sciences for Bell Labs in Murray Hill, N.J. "Science has its mo-

A 28-year-old mathematician at | ments of great progress, and this may well be one of them."

Because problems in linear programming can have billions or more possible answers, even high-speed computers cannot check every one. So computers must use a special procedure, an algorithm, to examine as few answers as possible before finding the best one - typically the one that minimizes cost or maximizes efficiency.

A procedure devised in 1947, the simplex method, is now used for such prob-

Continued on Page A19, Column 1

# Homeless Spen

# **By SARA RIMER**

For the last 10 weeks, homeless families, mostly mothers and young children, have been spending weekend nights on plastic chairs, on countertops or on the floor in New York City's emergency welfare office because the city's welfare agency has run out of beds.

Other families have been waiting almost through the night while city welfare workers try to find temporary space for them in any of the 51 hotels scattered throughout Manhattan, the Bronx. Brooklyn and Queens that accept homeless families.

In some cases, the families leave the Manhattan office at 4 or even 5 A.M. for an hour's trip on the subway to hotels in the other boroughs that will require them to check out as early as 11 A.M. that same morning.



Musicals for City Opera The New York City Opera has re-ceived a \$5 million gift for the estab-lishment of a spring musical-comedy

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Continued on Page BL Column 1 Continued on Page Did. Column 1 Continued on Page Alt, Column 1

10 CENTS

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