



VOL. 17

-LH-

March '73

By them shall the fowls of the

Heavens have their habitation

which sing amoung the branches.

Psalm 104:12

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109 100

Guest Editor - Ken Yoder

State of Art - Dave Stuber

Puzzle Page - Gerald Stanley

Women's Page - Walda Sylvester

Production - Lucy Miller, Phyllis Gates

Cover - Lynn Haines

STATE of the ARTS..........Dave Stuber

Well, I just took another head count and I came up with six more new people this month.

Richard Putz is a new technician for the Incoming Inspection Department.

Dave Menges is a new technician in the Set-Comp Department.

Martha Moeler comes in after school and works on the Amp and IC-150 Lines.

Sandra Rowe works evenings in Incoming Inspection.

Max Davis, a former employee, has returned part-time to work in the Set-Comp Department.

Jane Martin is helping in the Accounting Department, helping Kate & Cindy bear the load.

Congratulations to Eric Lattrez on his engagement...

Well, the end of Crown's fiscal year is very near, which means the end of the big push is near, which means the end of the long weeks are near, and I for one, am ready for the rest!!!

DON'T MENTION IT

Of all the greetings I have heard, From paragraphs to a single word, There's none that I have come to hate

As much as, "Say, you're gaining weight!"

MURDICK'S MUD..........Mike Murdick

Well, here I am again! The editors and staff of the Crown Crier have had many requests concerning the revival of my column, however they (the editors) ignored those requests and asked me to write anyway.

Many monumental accomplishments have taken place since I last spoke with you. At the moment I can't think of any, but I'm sure there were.

The Sales Department has new literature concerning the DC-300A. Thanks to the supreme writing efforts of Mr. Dave McLaughlin and "this reporter", the information contained therein is reasonably accurate.

For the first time in 6 years, we will have shortly a complete, unabridged, unexpurgated version of the SX manual. At last a customer knows what he bought!

We in the Sales Department have been experiencing a phenomenon which most production people thought impossible---the Sales Dept. has been working the Incoming Inspection Line, and that area will never be the same again!!! Mac, Richard, Dick McCreary not only had to supervise Sylvia, but also a couple of Salesmen---talk about the left hand not knowing what the right hand was doing---WOW!! I always said, "There is nothing like organization" and that was nothing like organization!

Well--nothing much more to report, so I won't report it. Next month please read an article by some other Draftee Reporter. If you don't your nose will fall off!

Crown's NCR 'Century-50' is a small business computer suitable for the data processing needs of small to medium sized companies. Typical applications run on this computer are Accounts Receivables, Accounts Payable, General Ledger, Payroll, Sales Analysis, Inventory Control, Labor Accounting, Production or Sales Forecasting, Model Costing, Maintaining Product Bill of Material and Component Where Used information, as well as numerous others.

The 'MRP System' Crown is now using encompasses a number of the aforementioned applications, and we currently have plans to design and implement various systems for our Accounting and Sales Departments to significantly assist them in their respective functions.

The Century-50 can also be used for limited scientific applications such as modeling the performance of a proposed circuit before actually building and testing it.

The Century-50 contains 16,384 positions of thin rod memory, with a memory cycle time of 800 nanoseconds (800 billionths of a second). Main memory is contained within the Central Processor Unit (CPU), which is able to control the simultaneous occurrence of three different processing functions. For example, the CPU may be communicating with two peripheral units while the internal program in main memory is progressing.

The magnetic disc packs we mount on the disc drives each store up to 4,194,304 characters of data. The transfer rate

of information between the disc drives and the Central Processor is 108,000 characters per second. The average time of accessing information is 55 milliseconds. Each of the two disc drives utilizes 72 read/write heads which magnetically write and read data in much the same principle our tape recorders use.

The printer prints at a maximum speed of 250 lines per minute. The print speed is impervious to the number of characters per line, since all 132 print positions are impaled simultaneously. Although this speed may be impressive to some, there are 2,000 and 3,000 lines per minute printers available for computers, making ours a very slow computer printer.

As the printer mentioned above is the means of getting information output from the system, the card reader is our means of feeding information which needs to be processed into the system. In typical computer applications, the information flow begins in the 'User Department' where the data is initially created or captured on paper. An example of this is the Labor Distribution sheets completed by most employees, which is the primary input to both the Labor Distribution System run at the St. Joe Valley Bank Data Center, and the Material Requirements Planning System we run on our computer. These sheets are gathered daily and punched into standard 80 column punch cards by Mary Ellen.

(continued on next page)

"Century-50" Computer cont.

It is these punched cards which are read by the computer's card reader at the rate of 300 cards per minute. The information in the cards is transferred by the computer to the mounted disc packs and precessed. When processing is complete, we can then use the printer to produce reports which portray the generated information to us in a form we can use. The above mentioned chain-of-events happens, in general, with the majority of business computer applications, including those mentioned at the beginning of this article.

To tie the above functions of the computer together, we need to define the role of the programmer.

Many people conceptualize computers as being magical 'Black Boxes', or as an 'Intelligent Being' much like a human. These concepts are totally false. Actually, the computer is most like a desk calculator, since both devices must have information input to them, and both must have explicit instructions on what to do with that data. Hence, the programmer's job is to write 'sets of instructions', called 'Programs', which will make the card reader read when it should, the disc drives read or write when they should, and the printer print when it should.

On the Century-50 Computer we can use four different programming languages. We can program in NEAT/3, COBOL and RPG Languages for business applications, and FORTRAN would be used by the Engineers. (cont. in next col.)

neering Department for scientific applications.

If you have questions about, or interest in our computer, feel free to stop by the Data Processing Department on break time or the lunch-hour.

SKETCHES

What about the other fellow
do you ever think of him?
His path may be somewhat rougher
and his outlook rather grim,
Do you show him sincere kindness
or do you turn him away?
Doing things to stem his efforts
adding on to his dismay,
Do you freely give him courage
in the form of good advice,
Or by underhanded methods
merely tighten up the vise?
It is well to help a loser
to regain what he has lost,
Even if you cannot do this
at least you can melt the frost.
Life is rough, success is rougher,
this we all know to be true,
But it is well to remember
the other guy might well be you.

by Ben Burroughs

SAD SUCCESS STORY

I work long hours both day and night
To try to increase my take-home pay.
Then I find at tax time, much to my distress,
That I owe Uncle Sam most for my success.

—Roger W. Dana.

Last Month's Puzzle Answers:

The Hundred Birds:

The servant bought:

50 pigeons

35 larks

15 parrots

Since no fractions of a rupee were involved he bought the birds in sets of 5, 7, and 3 respectively. If we let X equal the number of sets of pigeons, Y equal the number of sets of larks, and Z equal the number of sets of parrots we can get two equations.

$$5x + 7y + 3z = 100 \text{ (birds)}$$

$$3x + 5y + 9z = 100 \text{ (rupees)}$$

Since we have two equations and three unknowns, algebraic solutions will only yeild a family of solutions which is a line in three space, the intersection of the two planes described by the equations.

Fortunately, the values of X, Y, and Z are confined to positive integers which may be selected by trial and error for consistency with the expression for the solution line: $Y + 9z = 50 = 3x + 4y$

The results are unique with $X=10$, $Y=5$, and $Z=5$.

The Arithmetical Constable:

The answer to the car number observed is 2401.

This problem is worked easily by the knowledge that the sum of the four digits taken to the fourth power is the four digit number. Since 10 to the 4th power is a 5 digit number the sum must be 9 or less. Since 5 to the 4th power is a 3 digit number the sum must be 6 or more. This means that there are only 4 possibilities for the sum 6, 7, 8 and 9.

Constable cont.

(6)⁴ = 1296 for a sum of 18

(7)⁴ = 2401 for a sum of 7 which is the intended result

(8)⁴ = 4096 for a sum of 19

(9)⁴ = 6561 for a sum of 18

25. THE ELDERLY RIDDELLS

The pastor was new to the village and when he made his first call on elderly Mr. and Mrs. Riddell he was made very welcome. Elderly people are often very proud of their age and this sturdy couple was no exception.

"How old do ye think we be, my wife and me, Mr. White?" asked the old man.

"I really don't know" replied the pastor angling for time to think out a complimentary reply. "Mrs. Riddell looks very young yet; I will put her at 50; and you, sir, well, you might easily pass for 60."

"You be flattering us as ye very well know, Sir," said the delighted Mr. Riddell with a twinkle in his eye. "We baint that young. But I will gie thee a clue. Both my wife's age and mine read the same when turned upside down. Also, sir, if the differences between our ages be also turned upside down it gives my wife's age of eight years agone. Now, sir, can ye reckon that out?"

The pastor enjoyed his visit and promised to tell the elderly couple what their ages were when next he called. He kept his promise.

31. THE COAL PROBLEM

Mr. Byrne was lunching with Professor Figaro, who held the chair of mathematics at the local university and was regarded as the city's most remarkable lightning calculator. "Last week," said Mr. Byrne, "the miners in our area dug up a record number of tons of coal. I can't remember the exact figure; it was rather more than half a million and I did notice that its square root and cube root were whole numbers." "That's interesting," said the professor and a few moments later added, "there is only one number between half a million and a million like that; it must be . . ." he wrote on a slip of paper and handed it to his friend. "That's it exactly," exclaimed Mr. Byrne in astonishment, "how on earth did you find it out?"

Who would have thought after all that glorious spring weather that the blizzard of March 17th would have happened?? I asked several people from Crown if they encountered any unusual problems. John Bachman replied: "Not really. I spent the night of the great white snowfall with two nuns; along with thirty-two other people!"

Seems as though John had a commitment in Dowagiac, Michigan on March 17th. Coming home via Ye Old M-62, John and his companions could go no farther and stopped at the closest house around, along with many others also stranded! The lady of the house put together some kind of a glorified stew. Boy, I'll bet she's had unexpected company before, but never like that night!! They somehow found places for all those people to sleep, and the next morning everyone was slowly on their snowy way. (John followed a snow plow out of Michigan.) Ataboy, John.

And then there was the news bulletin about a school gymnasium in Ann Arbor, Michigan harboring some 150 snow stranded people, among whom was an entire wedding party on their way to the Church that night. The next day the bride and groom and bridesmaids could wait no longer and held their wedding ceremony in the school gym. All 150 "guests" signed the guest book!!!

We heard that every car at Crown had to be escorted out of the parking lot (with a lot of help from our friends), and luckily, all our people made it safely home from work Saturday afternoon.

Max Scholfield spent most of the day Saturday helping people shovel their cars out of the huge drifts that occurred on his road. One man had a small emergency: While Max and the gentleman were trying to get his car "unstuck", the man's wife was home in labor.

Here's What's Cookin'

"YUM-YUMS" by marlene miller

Serves: 13 x 9 Cake Pan

Bottom layer.....

2 c. flour

1/2 c. butter

1/2 c. brown sugar

Mix together and press firmly into bottom of 13 x 9 cake pan.

Top layer.....

2 cups brown sugar (firmly Packed)

2 tablespoons flour

1/2 teaspoon salt

1 c. coconut

3 beaten eggs

1 teaspoon vanilla

1/2 c. chopped walnuts

1/4 teaspoon baking powder

Mix together, and spread over the bottom layer. Bake about 20 min. at 350°, or until nicely brown.

Cut in bars when cold.



"Say 'Freeze'!"