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GIFT SHOP

MONTHLY

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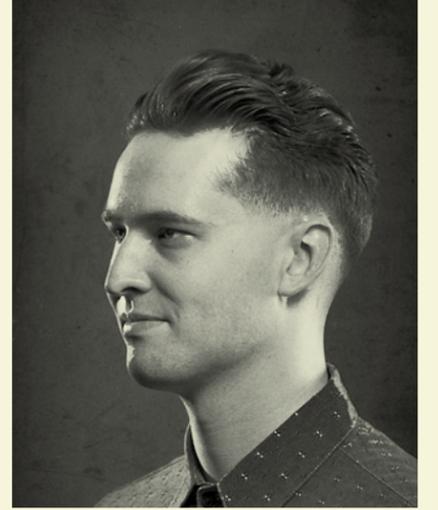
SLEEPING BARBER • COCKTAIL LEGENDS • THE FUTURE

```

#define CHAIRS 5 /* # chairs for waiting customers */
typedef int semaphore; /* use your imagination */
semaphore customers = 0; /* # of customers waiting for service */
semaphore barbers = 0; /* # of barbers waiting for customers */
semaphore mutex = 1; /* for mutual exclusion */
int waiting = 0; /* customer are waiting (not being cut) */
void barber(void)
{
while (TRUE) {
down(&customers); /* go to sleep if # of customers is 0 */
down(&mutex); /* acquire access to "waiting" */
waiting = waiting - 1; /* decrement count of waiting customers */
up(&barbers); /* one barber is now ready to cut hair */
up(&mutex); /* release "waiting" */
cut_hair(); /* cut hair (outside critical region) */
}
}
void customer(void)
{
down(&mutex); /* enter critical region */
if (waiting < CHAIRS) { /* if there are no free chairs, leave */
waiting = waiting + 1; /* increment count of waiting customers */
up(&customers); /* wake up barber if necessary */
up(&mutex); /* release access to "waiting" */
down(&barbers); /* go to sleep if # of free barbers is 0 */
get_haircut(); /* be seated and be served */
} else {
up(&mutex); /* shop is full; do not wait */
}
}

```

OPPOSITE PAGE:
I bomb atomically Socrates philosophies and hypothesis can't define how I be dropping these



I'm faded.

The Sleeping Barber Problem

Statement of the Problem and a Solution

Another classical IPC problem takes place in a barber shop. The barber shop has one barber, one barber chair, and n chairs for waiting customers, if any, to sit on. If there are no customers present, the barber sits down in the barber chair and falls asleep, as illustrated in [Figure 2-35].

When a customer arrives, he has to wake up the sleeping barber. If additional customers arrive while the barber is cutting a customer's hair, they either sit down (if there are empty chairs) or leave the shop (if all chairs are full). The problem is to program the barber and the customers without getting into race conditions. This problem is similar to various queuing situations, such as a multiperson helpdesk with a computerized call waiting system for holding a limited number of incoming calls.

Our solution uses three semaphores, customers, which counts waiting customers (excluding the customer in the barber chair, who is not waiting), barbers, the number of barbers (0 or 1) who are idle, waiting for customers, and mutex, which is used for mutual exclusion. We also need a variable, waiting, which also counts the waiting customers.

The reason for having waiting is that there is no way to read the current value of a semaphore. In this solution, a customer entering the shop has to count the number of waiting customers. If it is less than the number of chairs, he stays; otherwise, he leaves. Our solution is shown [below]. When the barber shows up for work in the morning, he executes the procedure barber, causing him to block on the semaphore cus-

tomers because it is initially 0. The barber then goes to sleep, as shown in [Figure 2.35]. He stays asleep until the first customer shows up.

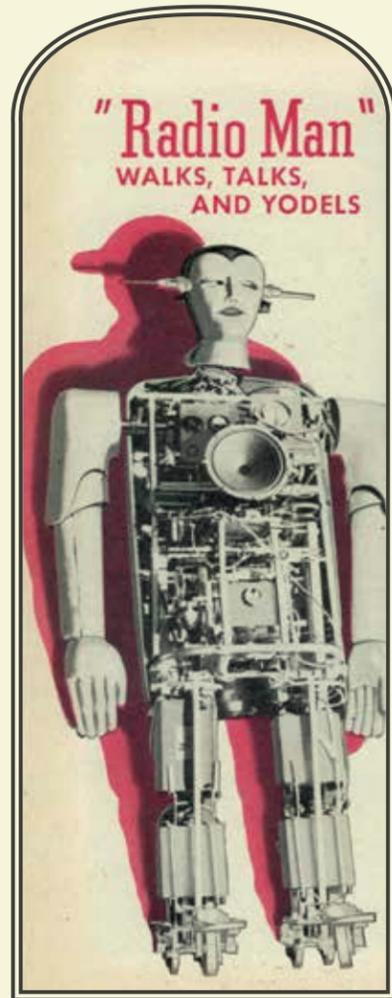
When a customer arrives, he executes customer, starting by acquiring mutex to enter a critical region. If another customer enters shortly thereafter, the second one will not be able to do anything until the first one has released mutex. The customer then checks to see if the number of waiting customers is less than the number of chairs. If not, he releases mutex and leaves without a haircut.

If there is an available chair, the customer increments the integer variable, waiting. Then he does an Up on the semaphore customers, thus waking up the barber. At this point, the customer and the barber are both awake. When

the customer releases mutex, the barber grabs it, does some housekeeping, and begins the haircut. When the haircut is over, the customer exits the procedure and leaves the shop. Unlike our earlier examples, there is no loop for the customer because each one gets only one haircut. The barber loops, however, to try to get the next customer. If one is present, a haircut is given. If not, the barber goes to sleep. As an aside, it is worth pointing out that although the readers and writers and sleeping barber problems do not involve data transfer, they still belong to the area of IPC because they involve synchronization between multiple processes.

“At this point, the customer and the barber are both awake.”

THERE ARE BIRDIES, EAGLES AND ACES IN THESE BUYS!



Everyone needs a yodeling robot

NO.	ITEM	PRICE
1.	KATSUHIKO OTOMO AKIRA COMPLETE COMIC SET	\$200
2.	ROBOTECH 1/72 VF-1S VALKYRIE & SUPER PARTS SET	\$250
3.	JIMMY CARTER SIGNED DOCUMENT RE: PEACE IN THE MIDDLE EAST	\$875
4.	GINO POUR-OVER COLLECTION	\$175
5.	THE DOORS GREATEST HITS LP USA VINTAGE	\$375
6.	VINTAGE KING RESEARCH BARBICIDE	\$150
7.	REGARDING COCKTAILS HARDCOVER BY SASHA PETRASKE	\$45
8.	BACK TO THE FUTURE DELOREAN, MARTY & DOC FIGURINES	\$175
9.	SILVER ON COPPER VINTAGE MARTINI SHAKER, B.M. MTS. C. 1920-1950	\$175

ask your bartender for more information

OPPOSITE PAGE:
Not all Gift Shop items are shown



1.



3.



5.



4.



2.



8.



6.



7.



9.

CHECK THESE BUYS

Cocktails

Gift Shop

from us to you

PINA CLEAR-ADA

Havana Club 7 rum, coconut water, falernum, demerara syrup, pineapple juice, lime juice, scalded milk - 14

EPISODE V - THE JUNIPER STRIKES BACK

Beefeater gin, lemon juice, Sith Lord syrup, egg white, Darth Vader bitters - 13

THE GOLDEN CHILD

Olmeca Altos tequila, Krupnik, dry vermouth, Ancho Reyes, liquid gold - 13

NUTZ!

Wild Turkey bourbon, walnut infused Green Chartreuse, salted pistachio honey syrup, lemon juice, mascarpone cream cheese, avocado oil, cracked pepper - 14

Legends

*from the best in
the business;
past & present*

CHAMOMILE SOUR

Jamie Boudreau, Canon, Seattle

Chamomile infused blended scotch whisky, lemon juice, simple syrup, egg white, Peychaud's bitters - 13

GROUNDHOG

*Frank Caiafa, Peacock Alley,
The Waldorf Astoria, New York*

Olmeca Altos tequila, white creme de cacao, lemon juice, house made cacao bitters - 13

ANGELUS (DRY)

Adapted from the 'Flowing Bowl'

William (The Only William) Schmidt, 1892

London dry gin, dry vermouth, house dry curacao, sugar, absinthe, house blend citrus bitters - 13

OLD PAL

'Harry's ABC of Cocktails' Harry Machelhone, 1922

Canadian rye whiskey, dry vermouth, Campari - 13

QUEENS' SPARK SWIZZLE

Adapted from 'Trader Vic's Bartenders Guide', 1947

Gosling's Black Seal rum, lime juice, demerara syrup, mint, Angostura bitters - 13

OPPOSITE PAGE:

The luck is gone, the brain is shot, but the liquor we still got.



Welcome to North Haverbrook;
where the Monorail is king.



Mono means "one", rail means "rail".

Monorail

At the end of WW2 the Swedish industrialist Dr. Axel Lennart Wenner-Gren was one of the world's richest men. He has sold ammunition to both sides during the war and as a result J. Edgar Hoover placed Axel Wenner-Gren on the Proclaimed List, a list of persons regarded as enemies to the United States. After the war in order to invest his wealth Wenner-Gren decided that the post-war world would need mobility for the masses.

In 1952 he purchased a German designed Monorail system that could travel at speeds reaching 160km. The primary purpose was inter-city transportation. He wrote the following preface to an Alweg information brochure in May 1953:

"... It is my firm conviction, crystallized out of ideas and experiences which long have been generating in my mind, that many of the ills besetting the world today are due to the lack of adequate instruments to assist man in the gigantic task of distributing the fruits of his labor. The impact of this lack throughout large areas of the world usually is not recognized by those peoples who already enjoy an efficient transportation system.

As the pressures of population growth increase, the burden of distribution becomes heavier and more backs are bent in the struggles of life. Faster, safer and cheaper transportation will lighten man's burden and make it possible for all peoples to draw more fully upon the wealth of their natural resources and to exchange them throughout the world.



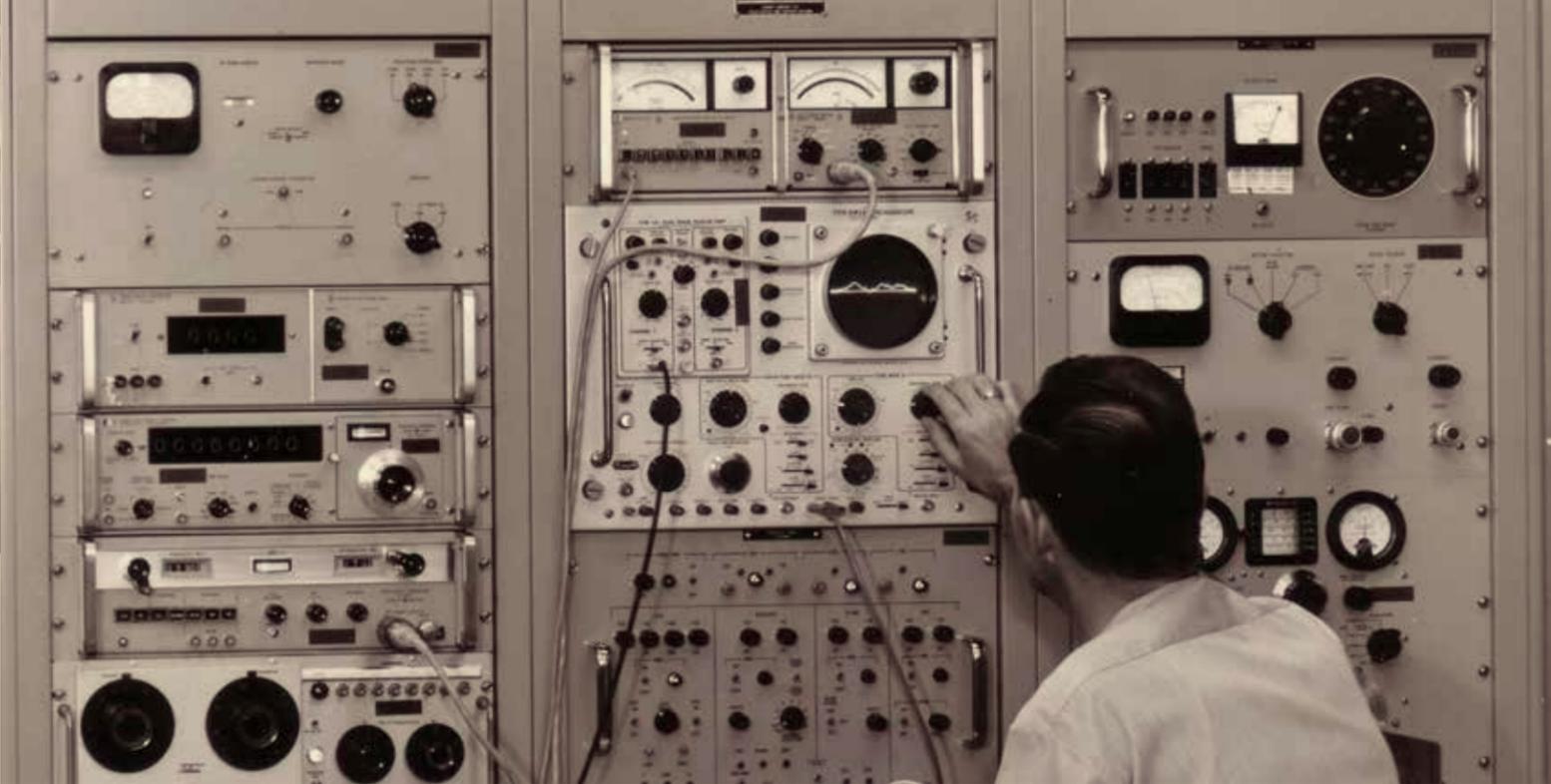
Heatwave

The Pineapple Express is the unofficial name given to an atmospheric river of warm moisture-laden air moving rapidly from the open ocean around the Hawaiian Islands to the West Coast. They can hit anywhere from California to Alaska, often bringing unseasonably warm temperatures, torrential rainfalls, flooding and mudslides.



The Life Aquatic

The first true automatic autonomous diving suit with pressure regulator and compressed air bottles, the Cousteau-Gagnan diving suit, 1943



Bleep Bloop

Spirits

we likely have a few extras behind the bar not listed

Time is never wasted when you're wasted all the time.

Vodka

- ABSOLUT 7
Winter wheat, Sweden, 40%
- KETEL ONE 9
Wheat, The Netherlands, 40%
- TITO'S HANDMADE 9
Yellow corn, USA
- ABSOLUT ELYX 15
Single estate winter wheat, Sweden

Tequila & Mezcal

- OLMECA ALTOS PLATA 8
NOM 1111, Jalisco, 40%
- DON JULIO AÑEJO 1942 25
NOM 1449, Jalisco, 40%
- PATRON SILVER 13
NOM 1432, Jalisco, 40%
- LOS SIETOS 9
MISTERIOS DOBA YEJ NOM 0153X, Oaxaca, 45.5%

LEYENDA

- TLACUACHE ORGANIC 12
NOM D104G, Oaxaca, 41%

Rum

- HAVANA CLUB 3YR 7
Cuba, 40%
- HAVANA CLUB 7YR 9
Cuba, 40%
- SMITH AND CROSS 9
Jamaica, 40%
- EL DORADO 15 10
Guayana, 40%
- RON ZACAPA 23 12
Guatemala, 40%
- PLANTATION XO 20TH ANNIVERSARY 12
Barbados, 40%
- LEBLON CACHACA 9
Brazil, 40%

Gin

- BEEFEATER 7
9 botanicals, England, 40%
- HENDRICK'S 10
12 botanicals, Scotland, 45%
- BEEFEATER 24 9
12 botanicals, 45%
- SIP SMITH 9
10 botanicals, London 41.6%
- PLYMOUTH 9
7 botanicals, Plymouth, 41.2%
- WHITLEY NEILL 9
9 botanicals, Liverpool, 42%
- STAR OF BOMBAY 10
10 botanicals, Hampshire, 47.5%
- BOTANIST 8
22 botanicals, Islay, 46%

Spirits con't

Canadian Whisky

- LOT 40 100% RYE 8
Windsor, ON, 43%
- GOODERHAM & WORTS 9
Windsor, ON, 44.4%

American Whiskey & Bourbon

- JACK DANIEL'S SINGLE BARREL 10
Lynchburg, TN 40%
- MAKER'S MARK 9
Loretto, KY, 45%
- BOOKER'S 14
Clermont, KY, 65.1%
- WILD TURKEY 81 7
Lawrenceburg, KY, 40.5%
- JACK DANIEL'S OLD NO. 7 8
Lynchburg, TN, 40%
- BUFFALO TRACE 9
Frankfurt, KY, 45%
- BULLEIT RYE 8
Louisville, KY, 45%
- RITTENHOUSE RYE 10
Bardstown, KY, 50%
- KNOB CREEK RYE 9
Clermont, KY, 50%

Irish whiskey

- JAMESON 7
County Cork, 40%
- RED BREAST 12 10
County Cork, 40%

Scotch Whisky

- SPRINGBANK 15 19
Campbelltown, 46%
- MONKEY SHOULDER 11
Blended, 40%
- BALLENTINES 7
Blended, 40%
- LAPHROAIG 10 9
Islay, 40%
- HIGHLAND PARK DARK ORIGINS 14
Orkney, 46.8%
- GLENFARCLAS 12 15
Highlands, 40%
- GLENROTHES 14
Speyside, 43%
- BOWMORE 12 10
Islay, 40%
- ARDBEG 10 14
Islay, 46%

- BRUICHLADDICH 10 12
Islay, 50%
- OCTOMORE 7.1 33
Islay, 59.5%
- AUCHENTOSHAN THREE WOOD 15
Lowland, 40%
- THE GLENLIVET NADURRA 16 19
Speyside, 61.5%
- PEATED CASK 16

Brandy, Cognac & Pisco

- JEAN MARTELL VS 9
Cognac, 40%
- EL GOBERNADOR 7
Pisco, 40%
- REMY MARTIN VSOP 11
Cognac, 40%
- REMY MARTIN XO 28
Cognac, 40%
- BOULARD PAYS D'AUGE 8
Calvados, 40%

Work is the curse of the drinking classes.

DOMINION BARBER SHOP

Forward Brush Professional Ivy League Business Men's

OFFICIAL HAIR STYLES for MEN and BOYS

We specialize in cutting hair correctly... the way you like it

DOMINION BARBERS

Butch Crew Cut Flat Top with Fenders Flat Top



MAN TO MAN, THE GOOD WORD GETS AROUND...

... They get a 'trickle' instead of a 'run'... but it's sure worth waiting for!

In the 'hollow' at Lynchburg, Tennessee, the Jack Daniel's folks make whiskey a slow, painstaking way—taking time to mellow every drop through room-high vats of pulverized charcoal (very special charcoal, rick-burned in the open air). The result is smooth, full-bodied *Jack Daniel's*—the rare old sippin' whiskey made in Tennessee.

You Ought to Taste **JACK DANIEL'S**
JACK DANIEL DISTILLERY
LYNCHBURG, TENNESSEE

60 YEAST FOAM TABLETS

Eat this pure yeast for your health's sake—it's great for skin disorders, indigestion and constipation. For general run-down conditions, there's nothing like it! Concentrated in easy-to-eat form. At Drug Stores.

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NORTHWESTERN YEAST CO., 1750 N. Ashland Av., Chicago, Ill.

FUTURE... HERE, NOW

BY RONALDO MEJOR

Including a vibrating sauna, an all-in-one credit card, a van that converts into a sports car and more



Do-all system

AM-FM stereo, microcassette recorder-player, calculator, digital clock with wake-up alarm--it's all-in-one, and it all fits in your hand.



Briefcase Alarms

Don't resist -- let the mugger grab your briefcase. As he escapes, punch a code on your transmitter. Vision-clouding red smoke billows forth as ear-piercing shrieks sound.



The Everything Card

This is the Ulticard, a rigid piece of plastic that could be the first in a new generation of supersmart cards that help you in a variety of ways--from losing weight to saving your life.



Gull-Wing Doors

Is this how Japan's 21ST Century cars will look? Nissan says its experimental NX-21, with 0.25 drag coefficient and gull-wing doors, could be ready in the 1990s.



Vibrating Sauna

This device from "Vibrosauna International" combines a home entertainment system with an air conditioner and massaging chair, all housed within a personal sauna pod. Keep a cool head while the rest of your body basks in dry heat of up to 170 degrees F.



Convertible Car

Ital Design envisioned a world where a car manufacturer could focus construction efforts on one model of car, which is in fact several models. Likewise, a business which may require both a van for transporting bulky objects and a sports car to woo clients could just buy one vehicle for both tasks.



Dome Homes

When completed, Monterey One will be the world's most energy-efficient home, claims Monterey Domes, Riverside, California. The double-dome house has advanced passive and active solar heating systems. Rigid foam insulation gives walls an R-value of 30.



Electric Doormat

This German invention wins the prize for the most elaborate and expensive alternative to the simple act of wiping your feet on a doormat. Stride across this mat and moving belts of bristles brush dirt off your shoes -- without tripping you.



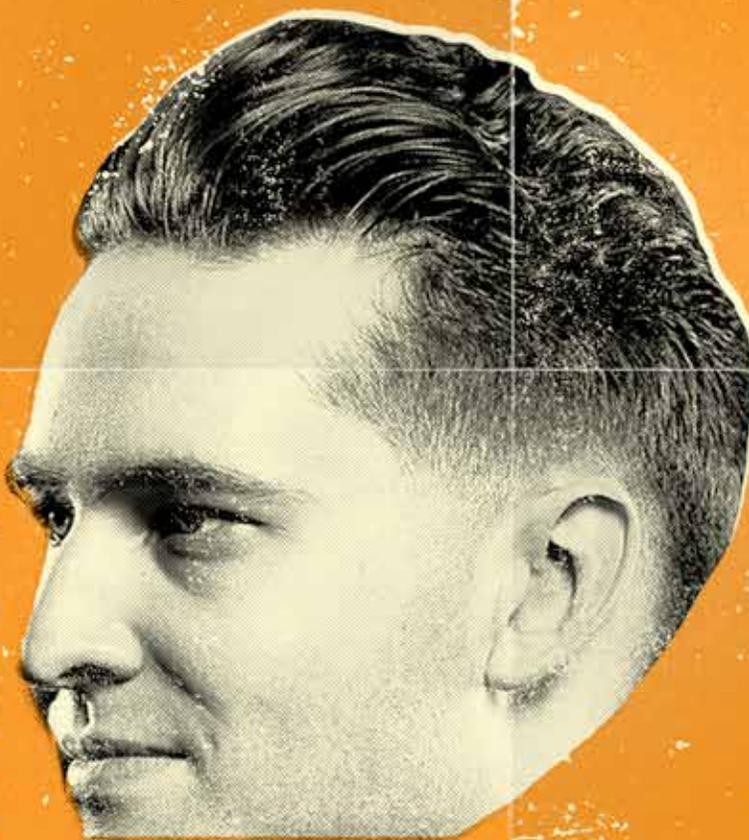
Speaker Vest

You shouldn't wear headphones while on a bike, so plug your portable stereo into the Stereo Sound Vest.



Head-Mounted Displays

The Private Eye, from Reflection Technology, is a video monitor that contains a servo-driven LED array. Result: The tiny one-inch screen produces an image comparable with that of a conventional 12-inch display.



\$40
HAIR CUT & RINSE

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LOW PRICE
SAVE \$\$\$**



DRY CUT
\$35

**FREE
WITH
TACOS**

NEW

**NOW
WITH
HOT TOWEL**



**DELUXE
SHAVE**
\$45

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