

Multi-Threaded Thing™

ASM

```
mov ax, 0200h
mov dl, 66
inc cx                ; Prints 'C'
int 21h              ; (My first initial)
mov CEC, Chris
mov cx, 180          ; time, in minutes
LearnAssembler:
call writeProgram
push Nathan
push Breiland
push Curtis          ; set up to
push Gordy           ; takeBreak with Friends
call takeBreak
loop LearnAssembler

mov Bus, Chris
mov Home, Bus
mov House, Chris
call makeSnack
mov LivingRoom, Chris
call eatSnack
call watchTelevision
iret                ; exit this subroutine
                   ; (take a nap)
```

C++

```
class Student {
    float fGpa;
    int iClass, iMajor;
    boolean bDoubleMajor;
};

void main() {
    Student *Chris = new Student();
    Chris→applyForInternship(SandiaNationalLabs);
    SandiaNationalLabs→acceptStudent(Chris);
    RoboticVehicleRange→hireStudent(Chris);
    Chris→learn(BorlandCBuilder);           // learn visual C for the RVR
}
```

Scheme (lisp)

```
(apply Chris MIT)
(accept MIT Chris)
(set! Chris 'MIT-Student)
(rush Chris)
(stayInTempDormRoom Chris)
(getBored Chris)
(visit Chris EpsilonTheta)
(playGames Chris EpsilonTheta)
(define ET EpsilonTheta)
(pledge Chris ET)
(learn Chris 'Scheme)    ;; learn Scheme for 6.001
```

Java

```
/** Main is the main entry point to this program.
 * There are no defined command-line arguments
 * As of April 30, 2001:
 *   Creates new Student, moves that student to the East Campus dorm at MIT
 *   Has student work a summer internship at Sandia National Labs
 *   Makes student learn Java
 **/
public class Main extends Object {

    public static void main(String args[] ) {
        Student Chris = new Student( '03, 6-3 );
        Chris.moveTo(MIT.EASTCAMPUS);
        Chris.summerInternship(DOE.SandiaNationalLabs);
        Chris.returnTo(MIT, "Fall 01");
        Chris.learn("java");
    }
}
```

Asm

```
call EatDinner
cmp  dueTomorrow, wantToDoHomework
jna  takeNap          ; See if importance of homework is
                        ; greater than my desire to skip

xor  bx,bx
mov  cx, 2000h
mov  ah, 39h
```

```

        ld    dx, MathBook
        int   21h          ; Find mathbook, do homework
takeNap:
        mov   Bed, Chris
        mov   cx, 0FFFFh
sleep:
        pushf              ; push flags
        pop    ax
        and   ax, 20h      ; In case something wakes me up
        jnz   wakeUp
        loop  sleep        ; Keep sleeping until something
                           ; wakes me up.

```

C++

```
Time GO_HOME_TIME = new Time( 5:00 PM );
```

```

void main() {
    Chris→leaveWorkAt(GO_HOME_TIME);
    Chris→driveHome();

    if (dinner→looksInteresting() )
        Chris→eatDinnerWithFamily( );
    // Dinner has a low probability of looking interesting ( < 0.25)

    else {
        // If dinner does not look good, flip a coin to see whether it is
        // Microwave Pizza or Microwave Hamburger tonight.
        if (random() > 0.5)
            Chris→makeMicrowavePizza( );
        else
            Chris→makeMicrowaveHamburger( );
        Chris→eatDinnerAlone( );
    }
    Chris→goToRoom( );
    turnOnTV( true );
    turnOnRadio( true );
    turnOnComputer( true );
    if (Chris→haveGoodBook( ) )
        Chris→read( );
    else {
        if ( Chris→tired( ) )
            break;          //exit this part (continue on to sleep)
        else if ( Breiland→isHome( ) ) {
            Chris→inviteFriend( Breiland );
            playComputerGame( Chris, Breiland );
        }
        else

```

```

        Chris→programComputerGame( );
    }
    while ( nothingHappens( ) )
        Chris→sleep( );
}

```

Scheme (lisp)

```

(if (> (ask Chris 'laziness) (ask Chris 'desire-to-go-home))
    (begin
        (go Chris 'APO-office)
        (wait Chris 'van-ride-home))
    (walk Chris 'home))
    ;; Walk home takes 30 minutes, sometimes
    ;; didn't feel like walking

(sleep Chris)
(if (ask Chris 'does-dinner-look-good)
    (eat Chris)
    (begin
        (make-ramen)
        (eat Chris)))

(if (> (length
        (filter (lambda (person) (ask person 'want-to-play-board-game))
                (ask ET 'people-at-home))) 0)
    (play-board-game Chris)
    (if (ask Chris 'have-homework-due-tomorrow)
        (do-homework Chris)
        (if (ask Chris 'have-good-book)
            (read Chris)
            (play-computer-game))))
    ;; see if anyone wants to play, if not, see if I
    ;; have homework, if not, either read or play

```

Java

```

/** Main is the main entry point to this program.
 * There are no defined command-line arguments
 * As of April 30, 2001:
 *     Creates second Student, Shelley. Creates couple containing Chris and Shelley

```

* Has couple flip coin to decide either Pizza or Spaghetti for dinner
* Couple watches a Simpsons episode selected from the episodes available
* Chris writes a paper, while Shelley does homework or work for her UROP
**/

```
public class Main extends Object {
    Food food1 = new Food("Spaghetti");
    Food food2 = new Food("Pizza");
    Student Shelley = new Student('03, 6-2);

    public static void main(String args[] ) {
        Couple us = new Couple(Chris, Shelley);
        us.makeDinner((Math.random() > 0.5) ? food1 : food2);
        us.eatDinner();
        us.watchEpisode( selectSimpsonsEpisode ( ));
        us.takeNap( 2:00 );
        Chris.writePaper();
        if (Math.random() > 0.5)
            Shelley.doHomework();
        else
            Shelley.doUropWork();
    }
}
```

This paper is an autobiography. It explains comparable aspects of four different periods in my life: Sophomore/Junior year in high school (in assembly); Senior year/summer after graduation (in C++); First $\frac{3}{4}$ of freshman year at MIT (in Scheme); and the time since then (in Java). The first assembly section describes an average day at CEC, the Career Enrichment Center, where I spent 3 hours a day during my Sophomore and Junior years in high school. The first C section is about the application process and beginning of time spent at an internship at Sandia National Labs, a national research facility with funding from the Department Of Energy. The first Scheme section does the same for my applying to MIT. The first Java section mentions a few of the changes I underwent in moving out of the Independent Living Group and into a Dormitory with my girlfriend. The second section for all of these languages describes an average day of life at home after classes or work was finished.

Some notes and observations:

Java and C are more disassociated languages, which seem to coincide with times in my life when I was less socially active. Scheme on the other hand corresponds to a time when I was the most socially active I've been and also a time when my schedule was less regular. Scheme basically just uses one big heap where everything's located, and there are no rules about accessing particular variables; everything is accessible and easy to change (less rigid).