

# Group #9 — Pseudocode

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## 1 main()

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-> user opened exec

display:

    buttons for gamemodes

        \_time, \_rank, \_practice, \_calc

    text for points

    title text

    text for button labels

    hover over options for instructions (??)

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while (user not exit) {

    CaseA = time\_mode()

    CaseB = rank\_mode()

    CaseC = practice\_mode()

    CaseD = calculator()

    if (user picks "time\_mode()")

        display time\_mode()

    if (user picks "rank\_mode")

        display rank\_mode()

    if (user picks "practice\_mode")

        display practice\_mode()

    if (user picks "calculator")

        display calculator()

}

close program

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## 2 time\_mode() + \_start→time\_mode()

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-> user clicked \_time button

```
display:
    buttons for _start and _back
    text for instructions & "ready to start"

while (user not _back) {
    if (user picks "_start")
        display:
            _start->time_mode() // starting screen for time_mode()
}
```

-> user clicked \_start->time\_mode()

```
display:
    one question
    input answer
    button for submit
```

```
variation 1:
    print question
    while (time is not 0) {
        while (user inputs answer) {
            if (answer correct)
                if (user has answered all questions)
                    print congrats!
                    return to main()
            else
                print nice! next problem...
                repeat--;
        }
        else
            print try again... clock is ticking
    }
}
```

```
variation 2:
    print ALL questions
    if (user does not input all answers)
        print "you didn't answer all questions"
    if (user is done)
        check answers
        if (incorrect answers)
            print incorrect answers
        else
            print congrats you got all them correct!
    return to main()
```

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### 3 quiz\_mode() + \_start\_quiz\_mode()

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--> user clicked quiz\_mode()

```
display:
    buttons for _start and _back AND _print_sheet
    text for instructions & "ready to start" & print pdf sheet

if (user print pdf sheet)
    if (user hasn't taken test)
        print u have not taken test
    else
        pdf testsheet.pdf

while (user not _back) {
    if (user picks _start)
        display:
            _start->quiz_mode()
}
```

--> user clicked \_start->quiz\_mode()

```
display:
    all questions in a grid form
    text with the problems
    input for the answers

if (user does not input all answers)
    print "you didn't answer all questions"
    if (user is done)
        check for answers
        if (incorrect answers)
            print incorrect answers
        else
            print congrats!
            save answers to log
            update rank points
            return to main()
```

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## 4 practice\_mode() + \_start\_practice\_mode()

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```
--> user clicked practice_mode()
```

```
display:
    buttons for _start and _back
    text for instructions & "ready to start"
```

```
while (user not _back) {
    if (user picks _start)
        display:
            _start->practice_mode()
}
```

```
--> user clicked _start->practice_mode()
```

```
display:
    all questions in a grid form
    text with the problems
    input for the answers
```

```
if (user does not input all answers)
    print "you didn't answer all questions"
if (user is done)
    check for answers
    if (incorrect answers)
        print incorrect answers
    else
        print congrats!
    return to main()
```

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## 5 calculator()

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--> user clicked calculator()

display:

new window w/ either...

windows: built in calculator

mac: built in calculator

linux: made from scratch calculator (so we actually code something)

while (user did not close calc) {

do anything user wants with buttons on calculator

}

close calculator

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