

Northern Michigan University (Marquette Co, MI)

CS 344-01-25F: iOS / iPhone Programming

Program 1

Due: Wednesday 10 September 2025 3:00 P.M. EDT

Create a folder called “PG1” in the top level of your CS344-01-25F folder on PHILOS. Copy your XCode folder into the PG1 folder. Place a (possibly empty) file or folder called “DONE” into the PG1 folder when you are ready to have your program graded.

Write the following program in Swift:

You should ask the user for the numerator and denominator of a fraction. This will not be overly large and will be able to be stored in regular Int variables. You may assume that the numerator and denominator will both be positive. Negative numbers and zero will not be used here.

Your Swift code should convert the fraction to a decimal, and the decimal answer must be exact. If it's a terminating decimal, great! If it's a repeating decimal, the repeating portion should be in parentheses.

For example,

```
Please enter the numerator: 22
Please enter the denominator: 7
22/7 = 3.(142857)
```

or

```
Please enter the numerator: 5
Please enter the denominator: 6
5/6 = 0.8(3)
```

or

```
Please enter the numerator: 101
Please enter the denominator: 4
101/4 = 25.25
```

Your program should be broken up into appropriate methods and commented adequately.