



# COLEMAN UNIVERSITY

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**STUDENT #:** 77260

**CLASS #:** COM (107 / 120)

**8-12AM** X **1-5PM**  **6-10PM**

**PROJECT:** Project 3

**INSTRUCTOR:** Charlie Morgan

# Project 3

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| Input                | Process       | Output         |
|----------------------|---------------|----------------|
| Month<br>Day<br>Year | Validate Date | Is Date Valid? |

Pseudocode:

PROMPT month

STORE iMonth

PROMPT day

STORE iDay

PROMPT year

STORE iYear

IF iMonth <= 0 || iMonth > 12

    DISPLAY error

    RETURN

ENDIF

IF iDay <= 0 || iDay > 31

    DISPLAY error

    RETURN

ENDIF

CASEOF iMonth

    CASE 1:

    CASE 3:

    CASE 5:

    CASE 7:

    CASE 8:

    CASE 10:

    CASE 12:

        IF iDay < 31

DISPLAY error

RETURN

CASE 4:

CASE 6:

CASE 11:

IF iDay < 30

DISPLAY error

RETURN

CASE 2:

IF (iDay == 29 && iYear % 4 != 0) && ( iYear % 100 != 0 || iYear % 400 == 0 )

DISPLAY error

RETURN

ENDCASE

DISPLAY Valid Date

Desk Check

| Input            | Expected | Actual                |
|------------------|----------|-----------------------|
| 02<br>29<br>1600 | Valid    | <b><i>Valid</i></b>   |
| 01<br>10<br>1994 | Valid    | <b><i>Valid</i></b>   |
| 5<br>32<br>2012  | Invalid  | <b><i>Invalid</i></b> |
| Invalid<br>Data  | Error    | <b><i>Error</i></b>   |