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| **Application/ Program name:** | CH6\_EX19 |
| **Written by:** | Allen J Myers |

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| **Purpose or problem definition:** |
| Calculate the day number of a given date depending on whether it is or is not a leap year. |
| **Program Procedures:** |
| System prompts user for a date in numerical format(MM/DD/YYYY); user inputs a value. System then loops through with the given year to calculate the value of the date and output whether or not it is a leap year. |
| **Algorithm/Processing/Conditions:** |
| **Inputs:** |
| System prompts user for a date in numerical format(MM/DD/YYYY); user inputs a value. |
| **Processes:** |
| System then loops through with the given year to calculate the value of the date to determine whether it is a leap year or not. |
| **Outputs:** |
| System then outputs the value of the date inputted and outputs whether the year is a leap year. |
| **Notes & Restriction:** |
| User must input value of date in (MM/DD/YYYY) format only. |
| **Comments:** |
| Simple program that requires a lot of loops to calculate the date’s numerical value and leap year. |