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| **Application/ Program name:** | CH11\_EX6.exe |
| **Written by:** | Allen J Myers, Michael Rearden, Robert Hanson, Ryan Jeffrey |

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| **Purpose or problem definition:** |
| In Programming Exercise 2, the class dateType was designed and implemented to keep track of a date, but it has very limited operations. Redefine the class dateType so that it can perform the following operations on a date, in addition to the operations already defined: **A**. Set the month. **B**. Set the day. **C**. Set the year. **D.** Return the month. **E**. Return the day. **F:** Return the year. **G**. Test whether the year is a leap year. **H.** Return the number of days in the month **I**. Return the number of days passed in the year. **J**. Return the number of days remaining in the year. **K.** Calculate the new date by adding a fixed number of days to the date. |
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| **Program Procedures:** |
| System will use predefined functions to calculate and return values determined by the date inputted into the program. |
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| **Algorithm/Processing/Conditions:** |
| **Inputs:** |
| An initial date, predetermined number for adjusting new date. |
| **Processes:** |
| Calculates the number days since the beginning of the year, and the number of days left in the year. Calculates whether the year is a leap year or not. Calculates the new date with the predetermined number. |
| **Outputs:** |
| Output the remaining days and days before to the console. Output the new date. Output the number of days in the month. |
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| **Notes & Restriction:** |
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| **Comments:** |
| Implementation of the dateType header file. |