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PRACTICE EXERCISE 8.1

**LE8\_11 Days of the Week.**

**main()**

START

1. INITIALIZE dayNumber as int and \*dayName as char
2. PROMPT and GET the day number, dayNumber
3. CALL module daysWeek = dayName
4. DISPLAY the day of the week, dayName

END

**\*daysWeek(int dayNumber)**

START

1. INITIALIZE \*dayName as char
2. SET char \*days[7] as “Monday”, “Tuesday”, “Wednesday”, “Thursday”, “Friday”, “Saturday”, and “ SUNDAY
3. IF dayName is equals to dayNumber <1 or dayNumber >7
   1. DISPLAY “INVALID”
4. ELSE
   1. SET dayNumber as dayName
5. ENDIF

RETURN dayName

**LE8\_12 *Search Element.***

**main()**

START

1. INITIALIZE numEntries, indexFinder, numSearched as int
2. PROMPT and GET the number of entries, numEntries
3. SET numArray[numEntries]
4. FOR i = 0 to i<numEntries by 1
   1. PROMPT and GET a number, numArray[i]
5. ENDFOR
6. PROMPT and GET search data, numSearched
7. CALL module indexSearch(numArray, numEntries, numSearched)
8. IF indexFinder >= 0
   1. DISPLAY “FOUND in Index, indexFinder
9. ELSE
   1. DISPLAY “NOT FOUND”
10. ENDIF

END

**Int indexSearch(int \*numArray, numEntries, numSearch)**

START

1. INITIALIZE j as 0 and index equals to -1
2. DO
   1. IF (\*(numArray + j) equals numSearch
   2. SET index as j
3. WHILE j<numEntries and index <0

RETURN index

**LE8\_13 *Maximum Number.***

**main()**

START

1. INITIALIZE numEntries and maximumNumber as int
2. PROMPT and GET the number of entries, numEntries
3. SET numArray[numEntries]
4. FOR i = 0 to numEntries by 1
   1. PROMPT and GET number, numArray[i]
5. CALL module maximumSearch(numArray, numEntries)
6. DISPLAY the maximum number, maximumNumber

END

**int maximumSearch(int \*numArray, int numEntries)**

START

1. SET max=\*numArray
2. FOR i=0 to j<numEntries by 1
   1. IF (\*(numArray + j) > max)
      1. SET max =\*(numArray + j)
   2. ENDIF
3. ENDFOR

RETURN max