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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
   3.1 DISPLAY “INVALID”
4. ELSE
   4.1 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
   4.1 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
   8.1 DISPLAY “FOUND in Index, indexFinder
9. ELSE
   9.1 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
   2.1 IF (*(numArray + j) equals numSearch
   2.2 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
   4.1 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
   2.1 IF (*(numArray + j) > max)
      2.1.1 SET max =*(numArray + j)
   2.2 ENDIF
3. ENDFOR

RETURN max