Sorting

```
BEGIN SortList(PatientList, SortBy)
     CLEAR IsvPatientList
     IF SortBy == "ID" THEN
           WHILE PatientList.Length != 0 THEN
                 LowestID = PatientList[0].ID
                 FOR int i = 0 TO PatientList.Length - 1
                       IF PatientList[i].ID <= LowestID THEN</pre>
                             LowestID = PatientList[i].ID
                             CurrentEntryToAdd = I
                       END IF
                 END FOR
                 ADD PatientList[CurrentEntryToAdd] TO lsvPatientList
                 REMOVE CurrentEntryToAdd FROM PatientList
           END WHILE
     IF ELSE SortBy == "Name" THEN
           WHILE PatientList.Length != 0 THEN
                 LowestValue = GetLetterValue(Patient[0].LastName.FirstLetter)
                 FOR int i = 0 TO PatientList.Length - 1
                       IF GetLetterValue(Patient[i].LastName.FirstLetter) <= LowestValue THEN</pre>
                             LowestValue = GetLetterValue(Patient[i].LastName.FirstLetter)
                             CurrentEntryToAdd = I
                       END IF
                 END FOR
                 ADD PatientList[CurrentEntryToAdd TO lsvPatientList
                 REMOVE CurrentEntryToAdd FROM PatientList
           END WHILE
```

IF ELSE SortBy == "Age" **THEN**

```
WHILE PatientList.Length != 0 THEN
                  LowestAge = PatientList[0].Age
                 FOR int i = 0 TO PatientList.Length - 1
                       IF PatientList[i].Age <= LowestAge THEN</pre>
                             LowestAge = PatientList[i].Age
                             CurrentEntryToAdd = I
                       END IF
                 END FOR
                  ADD PatientList[CurrentEntryToAdd] TO lsvPatientList
                 REMOVE CurrentEntryToAdd FROM PatientList
           END WHILE
     IF ELSE SortBy == "Visits" THEN
           WHILE PatientList.Length != 0 THEN
                  LowestVisits = PatientList[0].Visits
                 FOR int i = 0 TO PatientList.Length - 1
                       IF PatientList[i].Visits <= LowestVisits THEN</pre>
                             LowestVisits = PatientList[i].Visits
                             CurrentEntryToAdd = I
                       END IF
                 END FOR
                  ADD PatientList[CurrentEntryToAdd] TO lsvPatientList
                  REMOVE CurrentEntryToAdd FROM PatientList
           END WHILE
     END IF
Here, 'tempsearchlist' is a global variable.
BEGIN Search(request)
     Searchterm = ' '
     IF request != " AND request != defaultdisplaytext THEN
```

END

Search

```
Searchterm = request
     END IF
     IF searchingagain = false THEN
           FOR i = 0 TO searchlist.Count
                 Tempsearchlist.Add(searchlist[i])
           NEXT I
           FOR i = 0 TO searchlist.Count
                 IF searchlist[i].Contains(searchterm) = false THEN
                       Searchlist.Remove[i]
                       I = I - 1
                 END IF
           NEXT I
           Searchingagain = true
     ELSE
           Searchlist.Clear()
           FOR I = 0 TO tempsearchlist.Count
                 IF tempsearchlist[i].Contains(searchterm) THEN
                       Searchlist.Add(tempsearchlist[i])
                 END IF
           NEXT I
     END IF
AgeCalculator
BEGIN AgeCalculator(dateofbirth)
      birthday = dateofbirth.RemoveIndexOf('/')
      birthmonth = dateofbirth.SubstringIndexOf('/').RemoveIndexOf('/')
      birthyear = dateofbirth.RemoveIndexOf('/').RemoveIndexOf('/')
     age = currentyear - birthyear - 1
     IF birthmonth < currentmonth OR (birthmonth = currentmonth AND birthday >= currentday)
     THEN
           age = age + 1
```

END

```
END IF
```

RETURN age

END

<u>GetLetterValue</u>

BEGIN GetLetterValue(letter)

IF letter == 'A' **THEN**

RETURN 0

ELSE IF letter == 'B' **THEN**

RETURN 1

ELSE IF letter == 'C' **THEN**

RETURN 2

ELSE IF letter == 'D' **THEN**

RETURN 3

ELSE IF letter == 'E' **THEN**

RETURN 4

ELSE IF letter == 'F' **THEN**

RETURN 5

ELSE IF letter == 'G' **THEN**

RETURN 6

ELSE IF letter == 'H' **THEN**

RETURN 7

ELSE IF letter == 'I' **THEN**

RETURN 8

ELSE IF letter == 'J' **THEN**

RETURN 9

ELSE IF letter == 'K' **THEN**

RETURN 10

ELSE IF letter == 'L' **THEN**

RETURN 11

ELSE IF letter == 'M' THEN
RETURN 12
ELSE IF letter == 'N' THEN
RETURN 13
ELSE IF letter == 'O' THEN
RETURN 14
ELSE IF letter == 'P' THEN
RETURN 15
ELSE IF letter == 'Q' THEN
RETURN 16
ELSE IF letter == 'R' THEN
RETURN 17
ELSE IF letter == 'S' THEN
RETURN 18
ELSE IF letter == 'T' THEN
RETURN 19
ELSE IF letter == 'U' THEN
RETURN 20
ELSE IF letter == 'V' THEN
RETURN 21
ELSE IF letter == 'W' THEN
RETURN 22
ELSE IF letter == 'X' THEN
RETURN 23
ELSE IF letter == 'Y' THEN
RETURN 24
ELSE IF letter == 'Z' THEN
RETURN 25

END IF

END