

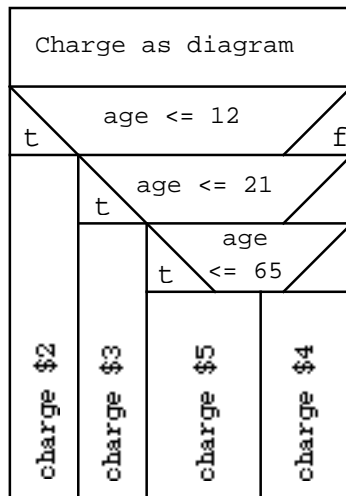
“Nice” Nests of Choices (involving ElseIf)

There is a very “nice” structure of code where the If-Else nests can be converted to If-ElseIf-Else nests, but this special structure is possible only under special conditions when all three of the following conditions are true:

1. the nesting is to the right, and
2. every Else is immediately followed by an If, (except for the last one), and
3. All the Endifs are together.

Then, in such a case:

- a. each Else followed by an If can be written as a single ElseIf
- b. and all the Endifs can be written as a single Endif



-- Charge as nest of If-Elses

```

If (age <= 12 ) then
    Set charge = 2
Else -- age > 12
    If (age <= 21) then
        Set charge = 3
    Else -- age > 21
        If (age <= 65) then
            Set charge = 5
        Else -- age > 65
            Set charge = 4
        EndIf
    EndIf
EndIf
    
```

-- Charge as “Nice” nest

```

If (age <= 12) then
    Set charge = 2
ElseIf (age <= 21) then
    Set charge = 3
ElseIf (age <= 65) then
    Set charge = 5
Else -- (age > 65)
    Set charge = 4
    
```

Notice the comments at the left and the many levels of indentation