

R version 3.6.0 (2019-04-26) -- "Planting of a Tree"
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 Platform: x86_64-w64-mingw32/x64 (64-bit)

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Natural language support but running in an English locale

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[Previously saved workspace restored]

```
> #DEBUG SAMY CODE:
> grade=c(4, 9, 6, 7, 3) #the grades taken by 5 candidates in the R course
> #The grades are further interpreted in terms of level of skills, as follows:
> ### grades: 1-4 => skills level: "beginner"
> ### grades: 5-7 => skills level: "intermediate"
> ### grades: 8-10=> skills level: "advanced"
> skills=vector()
>
> for (i in 1:length(grade))
+ {
+   if (grade[i]<=4)
+   {
+     skills[i]="Beginner"
+   } else {
+     if (grade[i]>=5 && grade[i]<=7)
+     {
+       skills[i]="Intermediate"
+     }
+   } else {
Error: unexpected 'else' in:
"    }
    } else"
>     skills[i]="Advanced"
Error in skills[i] = "Advanced" : object 'i' not found
>   }
Error: unexpected '}' in "    }"
> }
Error: unexpected '}' in "}"
>
> #debug process starts here:
> ##I renounce at the for loop and instead I run it myself
> ##so: I start by declaring i=1
> i=1
> ##I run each if until I find the bug
> if (grade[i]<=4)
+ {
+   skills[i]="Beginner"
+ }
> ##no bug here, so next time I go until the end of the next if
> ##i is still 1
> i
[1] 1
> if (grade[i]<=4)
+ {
+   skills[i]="Beginner"
+ } else {
+   if (grade[i]>=5 && grade[i]<=7)
+   {
+     skills[i]="Intermediate"
```

```

+   }
+ }
> ##no bug until here either so next time I take one more {} section of my code:
> if (grade[i]<=4)
+ {
+   skills[i]="Beginner"
+ } else {
+   if (grade[i]>=5 && grade[i]<=7)
+   {
+     skills[i]="Intermediate"
+   }
+ } else {
Error: unexpected 'else' in:
"  "
} else"
>   skills[i]="Advanced"
> }
Error: unexpected '}' in "}"
> ## I get the error: Error: unexpected 'else' in:
> ##"  "
> ##} else" => this is my first error
>
> ##the issue is with the last else -> in terms of subordination:
> #LEVEL 1: if1(grade: 1-4) => beginner
>   #LEVEL 1.1. ELSE1 <=> grade>4: LEVEL 1.1.1. if2(grade 5-7) => intermediate
>                                     #LEVEL 1.1.1.1 ELSE2 <=> grade>7
>                                     #=>ELSE2 is inside ELSE1 and subordinates t
o if2
>                                     #=>I end the if2 statement (close the ")" f
or if2)
>                                     #=>I close the ")" for ELSE2 and only THEN
>   #=>I close the ")" for ELSE1
>
> #in SAMY code I had:
> #LEVEL 1: if1(grade: 1-4) => beginner
>   #LEVEL 1.1. ELSE1 <=> grade>4: LEVEL 1.1.1. if2(grade 5-7) => intermediate
>   #LEVEL 1.1. ELSE2 <=> grade>7
>   #=>ELSE2 subordinates to if1 (it is not inside ELSE1, but at the same level)
>   #=>I end the if2 statement (close the ")" for if2)
>   #=>I closed the ")" for ELSE1 (too early)
>   #=>I closed the ")" for ELSE2
>
> #in fact, in this case I could have spotted from the beginning that I have an earlier error:
> for (i in 1:length(grade))
+ {
+   if (grade[i]<=4)
+   {
+     skills[i]="Beginner"
+   } else {
+     if (grade[i]>=5 && grade[i]<=7)
+     {
+       skills[i]="Intermediate"
+     }
+   } else {
Error: unexpected 'else' in:
"  "
} else"
>   skills[i]="Advanced"
> }
Error: unexpected '}' in "  }"
> }
Error: unexpected '}' in "}"
> #once I solve the "unexpected 'else'"error, no other error:
>
> for (i in 1:length(grade))
+ {
+   if (grade[i]<=4)
+   {
+     skills[i]="Beginner"
+   } else {

```

```
+     if (grade[i]>=5 && grade[i]<=7)
+     {
+       skills[i]="Intermediate"
+     }else {
+       skills[i]="Advanced"
+     }
+   }
+ }
>
>
```