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1 =begin
2 Ejercicio 7. Realizar un script en ruby denominado nchmod que nos visualice por el
3 código en
4 decimal asociado a los permisos que le queramos dar a un fichero.
5 Ejemplo:
6 nchmod.rb r-sr-xr-x el resultado que devolverá será 4555
7 El script tendrá que controlar el número de caracteres insertados por el usuario,
8 mostrando un
9 mensaje de error donde especifiquemos el uso
10 =end
11
12
13 =begin
14 Usage: doing nothing in a match
15 Name of method: pass
16 Date of creation: 22/04/2021
17 Members: Roberto Jiménez y Alberto Pérez
18 Last modification: 22/04/2021
19 Parameters:
20     Entry:
21         - None
22     Out:
23         - None
24 =end
25 def pass
26 end
27
28 =begin
29 Usage: Checks the firsts characters
30 Name of method: checkFirsts
31 Date of creation: 22/04/2021
32 Members: Roberto Jiménez y Alberto Pérez
33 Last modification: 22/04/2021
34 Parameters:
35     Entry:
36         - characters: string to check
37         - array: gets the number of permissions in octal
38     Out:
39         - None
40 =end
41 def checkFirsts characters, array
42
43     for i in [1,4,7]
44         if (i == 1) && (characters[i] == "r")
45             array[1] = array[1] + 4
46         elsif (i == 4) && (characters[i] == "r")
47             array[2] = array[2] + 4
48         elsif (i == 7) && (characters[i] == "r")
49             array[3] = array[3] + 4
50         elsif (characters[i] == "-")
51             pass
52         else
53             puts "Error, the letter #{characters[i]} does not belong to a permission"
54             exit
55         end
56     end
57 end
58
```

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59
60
61 =begin
62 Usage: Checks the seconds characters
63 Name of method: checkSeconds
64 Date of creation: 22/04/2021
65 Members: Roberto Jiménez y Alberto Pérez
66 Last modification: 22/04/2021
67 Parameters:
68   Entry:
69     - characters: string to check
70     - array: gets the number of permissions in octal
71   Out:
72     - None
73 =end
74 def checkSeconds characters, array
75   for i in [2,5,8]
76     if (i == 2) && (characters[i] == "w")
77       array[1] = array[1] + 2
78     elsif (i == 5) && (characters[i] == "w")
79       array[2] = array[2] + 2
80     elsif (i == 8) && (characters[i] == "w")
81       array[3] = array[3] + 2
82     elsif (characters[i] == "-")
83       pass
84     else
85       puts "Error, the letter #{characters[i]} does not belong to a permission"
86       exit
87     end
88   end
89 end
90
91
92 =begin
93 Usage: Checks the seconds characters
94 Name of method: checkSeconds
95 Date of creation: 22/04/2021
96 Members: Roberto Jiménez y Alberto Pérez
97 Last modification: 22/04/2021
98 Parameters:
99   Entry:
100     - characters: string to check
101     - array: gets the number of permissions in octal
102   Out:
103     - None
104 =end
105 def checkThirds characters, array
106   for i in [3,6,9]
107     if (i == 3) && (characters[i] == "x")
108       array[1] = array[1] + 1
109     elsif (i == 3) && (characters[i] == "s")
110       array[0] = array[0] + 4
111     elsif (i == 6) && (characters[i] == "x")
112       array[2] = array[2] + 1
113     elsif (i == 6) && (characters[i] == "s")
114       array[0] = array[0] + 2
115     elsif (i == 9) && (characters[i] == "x")
116       array[3] = array[3] + 1
117     elsif (i == 9) && (characters[i] == "t")
118       array[0] = array[0] + 1
```

```
119     elsif (characters[i] == "-")
120         pass
121     else
122         puts "Error, the letter #{characters[i]} does not belong to a permission"
123         exit
124     end
125 end
126 end
127
128
129
130
131 =begin
132 Para la solucion de este ejercicio, se va a seguir el siguiente metodo de resolucio:
133 - Se va a usar de ejemplo la cadena rwx-wxr-x.
134 - Para el analisis de una cadena, se realizara de la siguiente forma:
135     - checkFirsts --> analiza todas las primeras posiciones, es decir, r - r
136     - checkSeconds --> analiza todas las segundas posiciones, es decir, w w -
137     - checkThirds --> analiza todas las terceras posiciones, es decir, x x x
138 - Mientras se analizan, se van sumando los valores a la posicion correspondiente
139 del numero
140 =end
141
142 =begin
143 Usage: Body of the program
144 Date of creation: 22/04/2021
145 Members: Roberto Jiménez y Alberto Pérez
146 Last modification: 22/04/2021
147 Parameters:
148     Entry:
149     - Argv: Parameter introduced by console when program is called
150     Out:
151     - None
152 =end
153 if ARGV.length == 1
154     characters = ARGV[0].chars
155     if characters.length == 9
156         permissions = [0,0,0,0]
157         checkFirsts characters, permissions
158         checkSeconds characters, permissions
159         checkThirds characters, permissions
160         puts permissions
161     else
162         puts "Error, the string is not correct (length is not 9)"
163     end
164 else
165     puts "Error 1 parameter is necessary to execute the script"
166 end
167
168
```