```ruby
=begin
Ejercicio 7. Realizar un script en ruby denominado nchmod que nos visualice por el código en
decimal asociado a los permisos que le queramos dar a un fichero.
Ejemplo:
nchmod.rb r-sr-xr-x el resultado que devolverá será 4555
El script tendrá que controlar el número de caracteres insertados por el usuario, mostrando un
mensaje de error donde especifiquemos el uso
=end



=begin
Usage: doing nothing in a match
Name of method: pass
Date of creation: 22/04/2021
Members: Roberto Jiménez y Alberto Pérez
Last modification: 22/04/2021
Parameters:
    Entry:
        - None
    Out:
        - None
=end
def pass
end

=begin
Usage: Checks the firsts characters
Name of method: checkFirsts
Date of creation: 22/04/2021
Members: Roberto Jiménez y Alberto Pérez
Last modification: 22/04/2021
Parameters:
    Entry:
        - characters: string to check
        - array: gets the number of permissions in octal
    Out:
        - None
=end
def checkFirsts characters, array

    for i in [1,4,7]
        if (i == 1) && (characters[i] == "r")
            array[1] = array[1] + 4
        elsif (i == 4) && (characters[i] == "r")
            array[2] = array[2] + 4
        elsif (i == 7) && (characters[i] == "r")
            array[3] = array[3] + 4
        elsif (characters[i] == "-")
            pass
        else
            puts "Error, the letter #{characters[i]} does not belong to a permission"
            exit
        end
    end
end

```

```ruby
=begin
Usage: Checks the seconds characters
Name of method: checkSeconds
Date of creation: 22/04/2021
Members: Roberto Jiménez y Alberto Pérez
Last modification: 22/04/2021
Parameters:
    Entry:
        - characters: string to check
        - array: gets the number of permissions in octal
    Out:
        - None
=end
def checkSeconds characters, array
    for i in [2,5,8]
        if (i == 2) && (characters[i] == "w")
            array[1] = array[1] + 2
        elsif (i == 5) && (characters[i] == "w")
            array[2] = array[2] + 2
        elsif (i == 8) && (characters[i] == "w")
            array[3] = array[3] + 2
        elsif (characters[i] == "-")
            pass
        else
            puts "Error, the letter #{characters[i]} does not belong to a permission"
            exit
        end
    end
end


=begin
Usage: Checks the seconds characters
Name of method: checkSeconds
Date of creation: 22/04/2021
Members: Roberto Jiménez y Alberto Pérez
Last modification: 22/04/2021
Parameters:
    Entry:
        - characters: string to check
        - array: gets the number of permissions in octal
    Out:
        - None
=end
def checkThirds characters, array
    for i in [3,6,9]
        if (i == 3) && (characters[i] == "x")
            array[1] = array[1] + 1
        elsif (i == 3) && (characters[i] == "s")
            array[0] = array[0] + 4
        elsif (i == 6) && (characters[i] == "x")
            array[2] = array[2] + 1
        elsif (i == 6) && (characters[i] == "s")
            array[0] = array[0] + 2
        elsif (i == 9) && (characters[i] == "x")
            array[3] = array[3] + 1
        elsif (i == 9) && (characters[i] == "t")
            array[0] = array[0] + 1
```

```ruby
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 resolucion:
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
    del numero
139 =end
140
141 =begin
142 Usage: Body of the program
143 Date of creation: 22/04/2021
144 Members: Roberto Jiménez y Alberto Pérez
145 Last modification: 22/04/2021
146 Parameters:
147     Entry:
148         - Argv: Parameter introduced by console when program is called
149     Out:
150         - None
151 =end
152 if ARGV.length == 1
153     characters = ARGV[0].chars
154     if characters.length == 9
155         permissions = [0,0,0,0]
156         checkFirsts characters, permissions
157         checkSeconds characters, permissions
158         checkThirds characters, permissions
159         puts permissions
160
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
```