Main

Eingabe der Zahl

GetRomanNumber ()

⊙

GetRomanNumber

number : String[]

unit : String
ten : String
hundred : String
numberLength : int = number[0].length

[length = 1]

unit = CalcUnits (1)

CalcUnits
units

→ Ⓐ

[length = 2]

ten = CalcTens (1)   unit = CalcUnits (1)

CalcTens
ten

CalcUnits unit
ten

[length = 3]

hundred = CalcHundreds (1)   ten = CalcTens (1)   unit = CalcUnits (1)

CalcHundreds
hundred

CalcUnits unit, ten

⊙

Ⓐ →ConsoleWrite (num)

CalculateRN
number: char
romanNumber: String

CalculateRoman

romanNumber = X

condition	action
[numberTens = 1]	rN = XX
[nt = 2]	rN = XXX
[nt = 3]	rN = XL
[nt = 4]	rN = L
[nt = 5]	rN = LX
[nt = 6]	rN = LXX
[nt = 7]	rN = LXXX
[nt = 8]	rN = XC
[nt = 9]	rN = C

ConvertUnits(Error)

numberTens: int
romanNumber: String

return rN

CalculateRoman

romanNumber = I

condition	action
[number = 2]	rN = II
[number = 3]	rN = III
[number = 4]	rN = IV
[number = 5]	rN = V
[n = 6]	rN = VI
[n = 7]	rN = VII
[n = 8]	rN = VIII
[n = 9]	rN = IX

ConvertUnits(Error)

return rN

CalculateHundreds

remainderUnits: String

numberHundreds

remainderUnits

TenandUnits = []

n N = CC   [hh=1]

n N = CCC   [hh=2]

n N = D   [hh=3]

n N = D   [hh=4]

n N = DC   [hh=5]

n N = DCC   [hh=6]

n N = DCCC   [hh=7]

n N = CM   [hh=8]

concatenate (Ena)

return N