Kalendarz – początek i koniec podanego roku

Wyniki z programu Small Basic

```
Calendar - First and last of given year - from 1583

Enter a year (>= 1583, 0 - exit)  :
2023

Reults of calculation:

Rok  2023  regular
Year normal: 0. leap 1 =>    0
January 1,    Day number 1 = Sunday
December 31,  Day number 1 = Sunday

Days of week: 1-Sunday, 2-Mon, 3-Tue, 4-Wed, 5=Thu, 6-Fri, 7-Sat

Enter a year (>= 1583, 0 - exit)  :
2024

Reults of calculation:

Rok  2024 leap
Year normal: 0. leap 1 =>    1
January 1,    Day number 2 = Monday
December 31,  Day number 3 = Tuesday

Days of week: 1-Sunday, 2-Mon, 3-Tue, 4-Wed, 5=Thu, 6-Fri, 7-Sat

Enter a year (>= 1583, 0 - exit)  :
2025

Reults of calculation:

Rok  2025  regular
Year normal: 0. leap 1 =>    0
January 1,    Day number 4 = Wednesday
December 31,  Day number 4 = Wednesday

Days of week: 1-Sunday, 2-Mon, 3-Tue, 4-Wed, 5=Thu, 6-Fri, 7-Sat

Enter a year (>= 1583, 0 - exit)  :
_
```

Listing programu:

```
'  DayOfYear1583

'  Firs t and last of given year - from 1583"

TextWindow.ForegroundColor = "Yellow"

TextWindow.WriteLine("Calendar - First and last of given year - from 1583")
```

```smallbasic
Start:

 rp = 1583

 np = 7

 nk = 7


 TextWindow.WriteLine("")

 TextWindow.WriteLine("Enter a year (>= 1583, 0 - exit)  : ")

rk = TextWindow.ReadNumber()

TextWindow.WriteLine("")

If rk =0 then

 Goto Fin

EndIf


for r = rp + 1 To rk

 np = nk + 1

 '  rokp = LeapYear(r)

'  If  (rok Mod 4 = 0 And rok Mod 100 <> 0) Or rok Mod 400 = 0  Then rp = 1

 rokp = 0

 If   (Math.Remainder(r, 4) = 0  And Math.Remainder(r, 100) <> 0)  Or  Math.Remainder(r, 400) = 0  Then

    rokp = 1

 EndIf


 If (rokp = 0) Then  ' Rok zwykly

   nk = np

  Else          ' Rok przestepny

   nk = np + 1

  EndIf


  If np > 7 Then
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```
      np = np - 7

    EndIf


   If nk > 7 Then

    nk = nk - 7

   EndIf

  ' Next r

 EndFor


 npo = np

 nko = nk


 If rokp = 0 Then

  rokzp = "  regular"

 endif

 If rokp = 1 Then

  rokzp = " leap"

 endif


 TextWindow.WriteLine("Reults of calculation:")

 TextWindow.WriteLine("")

  TextWindow.WriteLine ("Rok  "+ rk + rokzp )

  TextWindow.WriteLine("Year normal: 0. leap 1 =>   " + rokp)

  nr=np

GetDay()

TextWindow.WriteLine("January 1,   Day number " + nr + " = " + Day)

nr=nk

GetDay()

TextWindow.WriteLine("December 31,  Day number " + nr + " = " + Day)
```

```smallbasic
TextWindow.WriteLine("")

TextWindow.WriteLine("Days of week: 1-Sunday, 2-Mon, 3-Tue, 4-Wed, 5=Thu, 6-Fri, 7-Sat")

If rk = 0 Then

 Goto Fin

EndIf


 If rk <> 0  Then

   goto  Start

  Endif


Fin:


'----------------------------------------------------------------------------------------------------

Sub GetDay

If  nr = 1 Then

  FinalDay = "Sunday"

EndIf


If  nr = 2 Then

  FinalDay = "Monday"

EndIf

If  nr = 3 Then

  FinalDay = "Tuesday"

EndIf

If  nr = 4 Then

  FinalDay = "Wednesday"

EndIf

If  nr = 5 Then

  FinalDay = "Thursday"
```

```
EndIf

If  nr = 6 Then

  FinalDay = "Friday"

EndIf

If  nr = 7 Then

  FinalDay = "Saturday"

EndIf


Day = FinalDay

EndSub
```