

Language / Langue :  English(en)  Français(fr)

Type of Syracuse sequence :  Standard  Reduced

Get steps of the reduced Syracuse sequence from  $u_0$

Starting number  $u_0$  in ten base :

5694404884515087493060693850763549288670635090644840232800582233386887995550155166444115406661271368855  
673755284938998150610474216096745754157891028861542453184345060036555834116397089402496330122521294533  
0969540518943561174403608473340944536058013897224395958577210681053098357508609328866064744358311071670  
55867367578617803858748457720539013607979308894112577810744495864186772872137526782633

Eraser the number

Number of steps  $N =$

Show the result of each step (takes several seconds for a length of 20000 steps, depending of the starting number)

Detect the minimum and maximum value of  $u(n)$  for  $n \leq N$

Try to reach value  $u(n) = 1$ , eventually with  $n > N$

Display SVG graphics

Compute

Stop

Restart

Program ended

List of steps obtained with the following convention :

0 for dividing by 2

1 for multiplying by 3, adding 1 and finally dividing by 2

1011111111111111110010110110110110111110110111111111111111111111111110111011111111111111100111  
11111011011011011011111111110011101101111110111111111111101101111011111011110111111101111101  
110110111111111101001011111011110110111111101101110111101111111101101111111111110110011111  
1111101111111110111011011011011011101111111111111110111111011111111011111011110110

List of steps written as string of ASCII characters :

ÿÑ9yöÿÿûü þÜÿçö÷ÿÜ{ÿ%Üÿ÷iÜ %×ßÿÿÿÿÿ±mÜvÿÿÿþioøzßÿ÷ßüoÿnßÿ\_%ÿöÿvüiÿüöß JACQUES BALLASI Syracuse  
N=1054 SN=0 2021/03/23 21:42:31 ?

List of steps written as string of UTF8 characters :

?ü ö ç k o } q v m s  
æ n w  
v  
} o n l ð

$u_0 \sim 5.69440488 \times 10^{394} = 5694404884515087493060693850763549288670635090644840232800582233386887995550155166444115406661271368855673755528$   
Value of  $u_2$  is less than  $u_0$

$u_{1054} \sim 5.69465347 \times 10^{394} = 56946534741215922843000113602821864597687384892216400857164367706669368256164126565895254956754544378847284290$   
 $u_{1054}/u_0 \sim 1.0000436551$

$|u_{1054}/u_0 - 1| \sim 4.3655063 \times 10^{-5}$

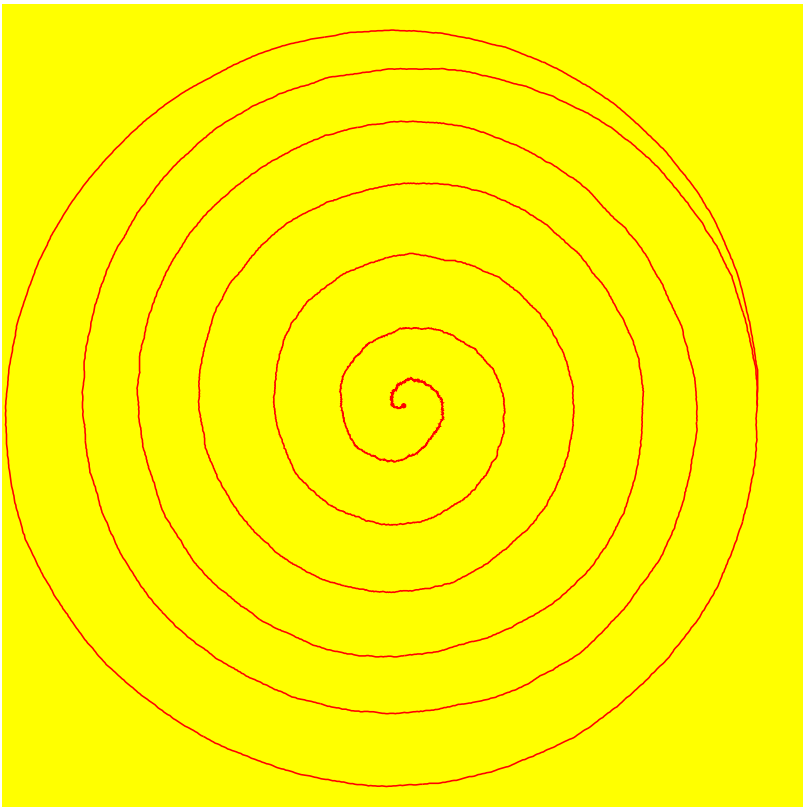
Minimum value :  
 $u_{1048} \sim 4.99942143 \times 10^{393} = 49994214313275981645432198499048001841591119795635797734684767259627428921735310016698166217178200826422855893$   
 $u_{1048}/u_0 \sim 8.77953277422 \times 10^{-2}$

Nearest value :  
 $u_{1054} \sim 5.69465347 \times 10^{394} = 56946534741215922843000113602821864597687384892216400857164367706669368256164126565895254956754544378847284290$   
 $u_{1054}/u_0 \sim 1.00004365506$

Maximum value :  
 $u_{584} \sim 3.12616493 \times 10^{447} = 312616492548776732698330250245691163203202614180857613815315220997064673752119104569258797098617677533879445912$   
 $u_{584}/u_0 \sim 5.48988873972 \times 10^{52}$

Current value :  
 $u_{1054} \sim 5.69465347 \times 10^{394} = 56946534741215922843000113602821864597687384892216400857164367706669368256164126565895254956754544378847284290$   
 $u_{1054}/u_0 \sim 1.00004365506$

Value 1 reached in 6957 steps,  $u_{6957} = 1$



Time to verify : 0.748 s