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LAMPIRAN

1. Program Python Pecahan Berlanjut Sederhana

Dapat dilihat pada link berikut:

https://colab.research.google.com/drive/12c9U3ufEUiq8FkD-f_XI90TD_tDhnerk?usp=sharing

```
import math
from decimal import *
from fractions import *
getcontext().prec=300
def upsfc(x):
    while x[-1]==1 and len(x)>1:
        x[-2]=x[-2]+x[-1]
        x = x[:-1]
    try:
        for j in range(x.count(0)):
            i = x.index(0,1)
            x[i] = x[i-1]+x[i+1]
            x.pop(i+1)
            x.pop(i-1)
    except ValueError:
        return x
    return x
def dec2sfc(x,n):
    if type(x) != str:
        return print('Input tipe string!')
    if n == "all":
        x = Fraction(x)
    else:
        s = x[x.index('.')+1:x.index('.')+1+n]
        x = Decimal(x[:x.index('.')+1]+s)
        x =
Fraction(str(x).replace('.', ''))/Fraction('1'+len(s)*'0')
z = []
y = int(x)
r = x-y
z.append(y)
while r != 0:
    x = 1/r
    y = int(x)
    z.append(y)
    r = x-y
return upsfc(z)
def ksfc(a):
    ka = [[1 for i in range(len(a))],[a[i]for i in
range(len(a))]]
    for i in range(2,len(a)+1):
        y = []
        for j in range(len(a)):
            if i+j-1>len(a)-1:
                break
            x = a[i+j-1]*ka[i-1][j]+ka[i-2][j]
            y.append(x)
        ka.append(y)
```

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    return ka
def imfr(a):
    pa, qa, cnv = cnvrg(a)
    imfrpa = [pa[2]]
    imfrqa = [qa[2]]
    for i in range(len(a)-1):
        for j in range(1,a[i+1]+1):
            p = j*pa[i+2]+pa[i+1]
            q = j*qa[i+2]+qa[i+1]
            imfrpa.append(p)
            imfrqa.append(q)
    imfrc = [(imfrpa[i],imfrqa[i]) for i in range(len(imfrpa))]
    return imfrc
def multisfc(e,f):
    if min(len(e),len(f)) == len(e):
        a = e
        b = f
    else:
        a = f
        b = e
    if a[0]<0 or b[0]<0:
        return print('hanya mengalikan pecahan berlanjut sederhana
nonnegatif')
    ka = ksfc(a)
    kb = ksfc(b)
    z = len(a)
    def dn(m,n):
        nonlocal a
        nonlocal b
        nonlocal ka
        nonlocal kb
        nonlocal kd
        if n % 2 == 1:
            pb = (ka[m][1]*kb[n][1]*kd[n-3][2]) - ((a[0]*kb[n-
1][2]*ka[m][1]+b[0]*ka[m-1][2]*kb[n][1]+ka[m-1][2]*kb[n-
1][2])*kd[n-2][1])
            pn = ((a[0]*kb[n-1][2]*ka[m][1]+b[0]*ka[m-
1][2]*kb[n][1]+ka[m-1][2]*kb[n-1][2])*kd[n-1][1]) -
(k a[m][1]*kb[n][1]*kd[n-2][2])
        else:
            pn = (ka[m][1]*kb[n][1]*kd[n-2][2]) - ((a[0]*kb[n-
1][2]*ka[m][1]+b[0]*ka[m-1][2]*kb[n][1]+ka[m-1][2]*kb[n-
1][2])*kd[n-1][1])
            pb = ((a[0]*kb[n-1][2]*ka[m][1]+b[0]*ka[m-
1][2]*kb[n][1]+ka[m-1][2]*kb[n-1][2])*kd[n-2][1]) -
(k a[m][1]*kb[n][1]*kd[n-3][2])
        return pb,pn
    if len(a) == len(b):
        if z == 1:
            d = [a[0]*b[0]]
        elif z == 2:
            d =
[a[0]*b[0]+fr2sfc((a[1]*b[1]),(a[0]*a[1]+b[0]*b[1]+1))]
        elif z == 3:
            d =
[a[0]*b[0],int((a[1]*b[1])/(a[0]*a[1]+b[0]*b[1]+1))]+fr2sfc((a[

```

```

0]*b[2]*(a[1]*a[2]+1)+a[2]*b[0]*(b[1]*b[2]+1)+a[2]*b[2]),((a[1]
*a[2]+1)*(b[1]*b[2]+1)-
(int((a[1]*b[1])/(a[0]*a[1]+b[0]*b[1]+1))*a[0]*b[2]*(a[1]*a[2]
+1)+a[2]*b[0]*(b[1]*b[2]+1)+a[2]*b[2])))
    else:
        d =
[a[0]*b[0],int((a[1]*b[1])/(a[0]*a[1]+b[0]*b[1]+1)),int((a[0]*b
[2]*(a[1]*a[2]+1)+a[2]*b[0]*(b[1]*b[2]+1)+a[2]*b[2])/((a[1]*a[2]
]+1)*(b[1]*b[2]+1)-
(int((a[1]*b[1])/(a[0]*a[1]+b[0]*b[1]+1))*a[0]*b[2]*(a[1]*a[2]
+1)+a[2]*b[0]*(b[1]*b[2]+1)+a[2]*b[2])))]
        kd = ksfc(d)
        for i in range(3,len(a)):
            pb, pn = dn(i,i)
            if i != len(a)-1:
                d.append(int(pb/pn))
                kd = ksfc(d)
            else:
                d = d + fr2sfc(pb,pn)
    else:
        if len(a)<3 and len(a)<len(b):
            if z == 1:
                if len(b) == 2:
                    d = [a[0]*b[0]]+fr2sfc(b[1],a[0])
                elif len(b) == 3:
                    d = [a[0]*b[0],0]+fr2sfc((a[0]*b[2]),(b[1]*b[2]+1))
                else:
                    d = [a[0]*b[0],0,int((a[0]*b[2])/(b[1]*b[2]+1))]
                    kd = ksfc(d)
                    ka.insert(0,[0,0,0])
                    ka[1].append(1)
                    for i in range(3,len(b)):
                        pb, pn = dn(z,i)
                        if i != len(b)-1:
                            d.append(int(pb/pn))
                            kd = ksfc(d)
                        else:
                            d = d + fr2sfc(pb,pn)
            elif z == 2:
                if len(b) == 3:
                    d =
[a[0]*b[0],int((a[1]*b[1])/(a[0]*a[1]+b[0]*b[1]+1))]+fr2sfc((a[
0]*b[2]*a[1]+b[0]*(b[1]*b[2]+1)+b[2]),(a[1]*(b[1]*b[2]+1)-
int((a[1]*b[1])/(a[0]*a[1]+b[0]*b[1]+1))*a[0]*b[2]*a[1]+b[0]*(
b[1]*b[2]+1)+b[2]))
                    else:
                        d =
[a[0]*b[0],int((a[1]*b[1])/(a[0]*a[1]+b[0]*b[1]+1)),int((a[0]*b
[2]*a[1]+b[0]*(b[1]*b[2]+1)+b[2])/(a[1]*(b[1]*b[2]+1))-
int((a[1]*b[1])/(a[0]*a[1]+b[0]*b[1]+1))*a[0]*b[2]*a[1]+b[0]*(
b[1]*b[2]+1)+b[2]))]
                        kd = ksfc(d)
                        ka[0].append(1)
                        for i in range(3,len(b)):
                            pb, pn = dn(z-1,i)
                            if i != len(b)-1:

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        d.append(int(pb/pn))
        kd = ksfc(d)
    else:
        d = d + fr2sfc(pb,pn)
else:
    d =
[a[0]*b[0],int((a[1]*b[1])/(a[0]*a[1]+b[0]*b[1]+1)),int((a[0]*b
[2]*(a[1]*a[2]+1)+a[2]*b[0]*(b[1]*b[2]+1)+a[2]*b[2]))/((a[1]*a[2
]+1)*(b[1]*b[2]+1)-
(int((a[1]*b[1])/(a[0]*a[1]+b[0]*b[1]+1))*a[0]*b[2]*(a[1]*a[2
+1]+a[2]*b[0]*(b[1]*b[2]+1)+a[2]*b[2])))]
    kd = ksfc(d)
    if z == 3:
        for i in range(3,len(b)):
            pb, pn = dn(z-1,i)
            if i != len(b)-1:
                d.append(int(pb/pn))
                kd = ksfc(d)
            else:
                d = d + fr2sfc(pb,pn)
    else:
        for i in range(3,len(a)):
            pb, pn = dn(i,i)
            d.append(int(pb/pn))
            kd = ksfc(d)
        for i in range(z,len(b)):
            pb, pn = dn(z-1,i)
            if i != len(b)-1:
                d.append(int(pb/pn))
                kd = ksfc(d)
            else:
                d = d + fr2sfc(pb,pn)
return upsfc(d)

```

2. Konvergen dan Pecahan Antara dari πe

Konvergen dan Pecahan Antara	Jarak ke $\widehat{\pi e}$	Aproksimasi rasional terbaik
8	0.539734222673567	Tidak
9	0.460265777326433	Ya
17/2	0.039734222673567	Ya
26/3	0.126932443993099...	Tidak
43/5	0.060265777326433	Tidak
60/7	0.031694348755004...	Ya
77/9	0.015821332881988...	Ya
94/11	0.005720322780978...	Ya

111/13	0.001272684212028...	Ya
205/24	0.001932443993099...	Tidak
316/37	0.000806317866973...	Ya
427/50	0.000265777326433	Ya
538/63	0.000051682991027...	Ya
965/113	0.000088786175990...	Tidak
1503/176	0.000038504599160...	Ya
2041/239	0.000014731301328...	Ya
2579/302	$8.766641813443708... \times 10^{-7}$	Ya
3117/365	0.000008195276306...	Tidak
5696/667	0.000004087741033...	Tidak
8275/969	0.000002540527024...	Tidak
10854/1271	0.000001728574432...	Tidak
13433/1573	0.000001228395118...	Tidak
16012/1875	$8.893402336666666... \times 10^{-7}$	Tidak
18591/2177	$6.443547796779972... \times 10^{-7}$	Ya
21170/2479	$4.590592063707139... \times 10^{-7}$	Ya
23749/2781	$3.140076194991010... \times 10^{-7}$	Ya
26328/3083	$1.973735345640609... \times 10^{-7}$	Ya
28907/3385	$1.015509672954209... \times 10^{-7}$	Ya
31486/3687	$2.142594020314618... \times 10^{-8}$	Ya
34065/3989	$4.656684413060917... \times 10^{-8}$	Tidak
65551/7676	$1.390798589213131... \times 10^{-8}$	Ya
97037/11363	$2.443039529965678... \times 10^{-9}$	Ya
128523/15050	$3.404464009966777... \times 10^{-9}$	Tidak

225560/26413	$8.888397823420285... \times 10^{-10}$	Ya
322597/37776	$1.133876802202456... \times 10^{-10}$	Ya
548157/64189	$2.990168434311174... \times 10^{-10}$	Tidak
870754/101965	$1.462291880056882... \times 10^{-10}$	Tidak
1193351/139741	$7.604730284597934... \times 10^{-11}$	Ya
1515948/177517	$3.573513037624565... \times 10^{-11}$	Ya
1838545/215293	$9.569563947736340... \times 10^{-12}$	Ya
2161142/253069	$8.784453556144766... \times 10^{-12}$	Ya
3999687/468362	$3.476215961158249... \times 10^{-13}$	Ya
5838232/683655	$2.775445780400933... \times 10^{-12}$	Tidak
9837919/1152017	$1.505737015165574... \times 10^{-12}$	Tidak
13837606/1620379	$9.700334878445104... \times 10^{-13}$	Tidak
17837293/2088741	$6.745734138411607... \times 10^{-13}$	Tidak
21836980/2557103	$4.873469707712204... \times 10^{-13}$	Tidak
25836667/3025465	$3.580883120445947... \times 10^{-13}$	Tidak
29836354/3493827	$2.634849719233379... \times 10^{-13}$	Ya
33836041/3962189	$1.912473541771985... \times 10^{-13}$	Ya
37835728/4430551	$1.342824892434372... \times 10^{-13}$	Ya
41835415/4898913	$8.820990921863686... \times 10^{-14}$	Ya
45835102/5367275	$5.024361261161266... \times 10^{-14}$	Ya
49834789/5835637	$1.825116589671358... \times 10^{-14}$	Ya
53834476/6303999	$8.931722070387384... \times 10^{-15}$	Ya
103669265/12139636	$4.135347386033650... \times 10^{-15}$	Ya
157503741/18443635	$3.309518432781824... \times 10^{-16}$	Ya

261173006/30583271	$1.441888181287083... \times 10^{-15}$	Tidak
418676747/49026906	$7.749561434694655... \times 10^{-16}$	Tidak
679849753/79610177	$1.031166643430525... \times 10^{-15}$	Tidak
941022759/110193448	$1.145158975332181... \times 10^{-15}$	Tidak
1202195765/140776719	$1.209622402124601... \times 10^{-15}$	Tidak
1463368771/171359990	$1.251075761617399... \times 10^{-15}$	Tidak
1724541777/201943261	$1.279973323794152... \times 10^{-15}$	Tidak
1985714783/232526532	$1.301269327837392... \times 10^{-15}$	Tidak
2246887789/263109803	$1.317614536011795... \times 10^{-15}$	Tidak
2508060795/293693074	$1.330555578576565... \times 10^{-15}$	Tidak
4754948584/556802877	$1.324440460820391... \times 10^{-15}$	Tidak
7001836373/819912680	$1.322250023014645... \times 10^{-15}$	Tidak
9248724162/1083022483	$1.321123876428334... \times 10^{-15}$	Tidak
16250560535/1902935163	$1.321609096252745... \times 10^{-15}$	Tidak
23252396908/2722847843	$1.321802094175998... \times 10^{-15}$	Tidak
30254233281/3542760523	$1.321905759815309... \times 10^{-15}$	Tidak
37256069654/4362673203	$1.321970460000095... \times 10^{-15}$	Tidak
44257906027/5182585883	$1.322014688357456... \times 10^{-15}$	Tidak
51259742400/6002498563	$1.322046833949404... \times 10^{-15}$	Tidak
58261578773/6822411243	$1.322046833949404... \times 10^{-15}$	Tidak
65263415146/7642323923	$1.322071253071192... \times 10^{-15}$	Tidak
72265251519/8462236603	$1.322090432543943... \times 10^{-15}$	Tidak
79267087892/9282149283	$1.322105895388659... \times 10^{-15}$	Tidak
86268924265/10102061963	$1.322118626499146... \times 10^{-15}$	Tidak

93270760638/10921974643	$1.322129291021851... \times 10^{-15}$	Tidak
100272597011/11741887323	$1.322138354373031... \times 10^{-15}$	Tidak
107274433384/12561800003	$1.322146151972574... \times 10^{-15}$	Tidak
207547030395/24303687326	$1.322149656180941... \times 10^{-15}$	Tidak
314821463779/36865487329	$1.322150772293131... \times 10^{-15}$	Tidak
422095897163/49427287332	$1.322151321092047... \times 10^{-15}$	Tidak
736917360942/86292774661	$1.322151086637429... \times 10^{-15}$	Tidak
1159013258105/13572006199 3	$1.322151172022416... \times 10^{-15}$	Tidak
1581109155268/18514734932 5	$1.322151211818327... \times 10^{-15}$	Tidak
2003205052431/23457463665 7	$1.322151234843423... \times 10^{-15}$	Tidak
2425300949594/28400192398 9	$1.322151249854010... \times 10^{-15}$	Tidak
2847396846757/33342921132 1	$1.322151260414281... \times 10^{-15}$	Tidak
3269492743920/38285649865 3	$1.322151268247862... \times 10^{-15}$	Tidak
3691588641083/43228378598 5	$1.322151274290061... \times 10^{-15}$	Tidak
6961081385003/81514028463 8	$1.322151271452151... \times 10^{-15}$	Tidak
10230574128923/1197996783 291	$1.322151270428122... \times 10^{-15}$	Tidak
13500066872843/1580853281 944	$1.322151269900099... \times 10^{-15}$	Tidak
16769559616763/1963709780 597	$1.322151269577969... \times 10^{-15}$	Tidak
20039052360683/2346566279 250	$1.322151269360954... \times 10^{-15}$	Tidak

36808611977446/4310276059 847	$1.322151269459824... \times 10^{-15}$	Tidak
53578171594209/6273985840 444	$1.322151269496802... \times 10^{-15}$	Tidak
90386783571655/1058426190 0291	$1.322151269481743... \times 10^{-15}$	Tidak
127195395549101/148945379 60138	$1.322151269475400... \times 10^{-15}$	Tidak
164004007526547/192048140 19985	$1.322151269471904... \times 10^{-15}$	Tidak
291199403075648/340993519 80123	$1.322151269473431... \times 10^{-15}$	Tidak
455203410602195/533041660 00108	$1.322151269472881... \times 10^{-15}$	Tidak
619207418128742/725089800 20093	$1.322151269472622... \times 10^{-15}$	Tidak
783211425655289/917137940 40078	$1.322151269472472... \times 10^{-15}$	Tidak
947215433181836/110918608 060063	$1.322151269472374... \times 10^{-15}$	Tidak
1111219440708383/13012342 2080048	$1.322151269472304... \times 10^{-15}$	Tidak
2058434873890219/24104203 0140111	$1.322151269472336... \times 10^{-15}$	Tidak
3169654314598602/37116545 2220159	$1.322151269472325... \times 10^{-15}$	Tidak
4280873755306985/50128887 4300207	$1.322151269472320... \times 10^{-15}$	Tidak
5392093196015368/63141229 6380255	$1.322151269472316... \times 10^{-15}$	Tidak
6503312636723751/76153571 8460303	$1.322151269472314... \times 10^{-15}$	Tidak
11895405832739119/1392948 014840558	$1.322151269472315... \times 10^{-15}$	Tidak

18398718469462870/2154483 733300861	$1.322151269472315... \times 10^{-15}$	Tidak
24902031106186621/2916019 451761164	$1.322151269472315... \times 10^{-15}$	Tidak
31405343742910372/3677555 170221467	$1.322151269472315... \times 10^{-15}$	Tidak
37908656379634123/4439090 888681770	$1.322151269472315... \times 10^{-15}$	Tidak
44411969016357874/5200626 607142073	$1.322151269472315... \times 10^{-15}$	Tidak
50915281653081625/5962162 325602376	$1.322151269472315... \times 10^{-15}$	Tidak
57418594289805376/6723698 044062679	$1.322151269472315... \times 10^{-15}$	Tidak
63921906926529127/7485233 762522982	$1.322151269472315... \times 10^{-15}$	Tidak
70425219563252878/8246769 480983285	$1.322151269472315... \times 10^{-15}$	Tidak
76928532199976629/9008305 199443588	$1.322151269472315... \times 10^{-15}$	Tidak
83431844836700380/9769840 917903891	$1.322151269472315... \times 10^{-15}$	Tidak
89935157473424131/1053137 6636364194	$1.322151269472315... \times 10^{-15}$	Tidak
96438470110147882/1129291 2354824497	$1.322151269472315... \times 10^{-15}$	Tidak
102941782746871633/120544 48073284800	$1.322151269472315... \times 10^{-15}$	Tidak
109445095383595384/128159 83791745103	$1.322151269472314... \times 10^{-15}$	Tidak
212386878130467017/248704 31865029903	$1.322151269472314... \times 10^{-15}$	Tidak
315328660877338650/369248 79938314703	$1.322151269472315... \times 10^{-15}$	Tidak

527715539007805667/617953 11803344606	$1.322151269472315... \times 10^{-15}$	Tidak
740102417138272684/866657 43668374509	$1.322151269472315... \times 10^{-15}$	Tidak
952489295268739701/111536 175533404412	$1.322151269472315... \times 10^{-15}$	Tidak
1164876173399206718/13640 6607398434315	$1.322151269472315... \times 10^{-15}$	Tidak
1377263051529673735/16127 7039263464218	$1.322151269472315... \times 10^{-15}$	Tidak
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*bercetak tebal adalah konvergen