```
(%i1)  n:1130394711217447373729641870799298049697636726513650592145236293884343047366258102485707953911895145119768300709220506223;

(%o1)  1130394711217447373729641870799298049697636726513650592145236293884343047366258102485707953911895145119768300709220506223 [63 digits]
```

(%i1) n:1130394711217447373729641870799298049697636726513650592145236293884343047366258102485707953911895145119768300709220506223;

(%o1) 1130394711217447373729641870799[63 digits]18951451197683007092206605223

(%i2) e:3871427519007750065457522714083503643267392932000283849159157848145391713928942775857187132955363537621888954171768148167;

(%o2) 3871427519007750065457522714083[62 digits]5536353762188895417176814811167

(%i3) ls:cf(e/n);

(%o3) [0,2,1,11,2,9,2,26,1,1,1,2,2,20,2,3,3,1,6,22,4,1,2,2,4,4,34,1,2,1,2,2,974766625894423992685686562515,1,5,1,17,3,2,1,1,3,2,3,2,2,1,1,4,48,1,2,3,2,73,1,1,4,1,1,4,1,1,10,1,1,1,6,5,11,1,5,1,4,1,1,1,9,1,6,3,12,1,119,1,21,1,1,3,3,1,5,7,22,2,573,2,2,1,3,272,9,1,3,1133,2,1,3,1,2,3,6,6,3,1,1,1,3,1,1,2,2,3,6,2,1,4,1,1,7,1,1,1,1,5,1,2,6,2,1,3,13,7,1,1,1,3,2,1,1,1,2,2,1,1,1,5,3,11,2,19,2,5,2,1,1,1,1,1,13,2,3,3,2,1,4,1,3,2,3,1,307,1,1,1,2]

(%i4) from_cf_n(L, n) := ratsimp(cfdisrep(makelist(L[i], i, 1, n)));

(%o4) $from\_cf\_n(L,n):=ratsimp(cfdisrep(makelist(L_i,i,1,n)))$

(%i5) from_cf_n(ls,32);

(%o5) $\dfrac{13646408196949262}{39845322112344543}$

(%i6) k:ratnumer(%);

(%o6)/R/ 13646408196949262

(%i7) d:ratdenom(%th(2));

(%o7)/R/ 39845322112344543

(%i8) C:(e·d−1)/k;

(%o8)/R/ 1130394711217447373729641870799[63 digits]7019472618638020653582322876640

(%i9) f(x):=x^2−(n−C+1)·x+n;

(%o9) $f(x):=x^2-(n-C+1)\,x+n$

(%i10) r:solve(f(x));

(%o10) [x=984332135243027483732439175976376349257697524369487560 8454221 , x=11483874911168653976878457053057724074673137784310688209863363]

(%i11) p:rhs(r[1]);

(%o11) 98433213524302748373243917597637634925769752436948756 08454221

(%i12) q:rhs(r[2]);

(%o12) 11483874911168653976878457053057724074673137784310688209863363

(%i14) d:inv_mod(e, pn);

(%o14) 39845322112344543

(%i15) m:666;

(%o15) 666

(%i16) c:power_mod(m, e, n);

(%o16) 1048811986764097881576217982326[62 digits]571227568543518877065396119

(%i17) m2:power_mod(c, d, n);

(%o17) 666
```