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nn=Range[1,10000000]
n=Select[nn,PrimeQ,(20000)]
n2=Select[nn,IntegerQ,(1000)]
k=(n^2)-1+(n)+(2-4n)
d=n^4-1+n^2
c=n^3+2
e=Mod[c,3]
f=Mod[d,3]
g=Mod[k,3]
h=Mod[c,7]
i=Mod[d,7]
j=Mod[k,7]
l=Mod[c,4]
m=Mod[d,4]
o=Mod[k,4]
r=Mod[c,5]
s=Mod[d,5]
t=Mod[k,5]
QQ=Transpose[{e,f,g,h,i,j,l,m,o,r,s,t}] this list was verified to be exclusive of primes , in
yellow is the transpose of the results for the mods of the polynomials n,k,c for the
number n equals i i=2^82589933-1

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n=(i-1)^2*(i+1)^3+97==
731800138137610704397124924156782053410312786846662965894292244415042
690494664482551189174256266281872750521532086201615968103859806521306
73216677756505407425542578614351 ...124309895...
434080012521733618467874718932001429731946679475112867070975801849610
805999333599329733024824964240623576759909524281604147342815610049715
914875266508698233034991520972897 it gives a positive result for a prime number

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=={{1,1,2,3,5,6,2,3,3,0,4,4},{2,2,1,1,5,1,1,1,1,4,4,1},{1,1,2,1,5,4,3,1,3,2,4,1},{0,1,2,2,6,1
,1,1,1,0,4,4},{1,1,2,3,5,5,1,1,1,3,1,4},{0,1,2,1,1,5,3,1,3,4,4,1},{1,1,2,1,5,1,3,1,3,0,4,4},{0
,1,2,1,5,4,1,1,1,1,1,0},{1,1,2,3,5,6,1,1,1,4,4,1},{1,1,2,3,1,6,3,1,3,1,1,0},{0,1,2,1,5,1,1,1,
1,3,1,4},{0,1,2,3,5,6,3,1,3,0,4,4},{1,1,2,1,1,5,3,1,3,3,1,4},{0,1,2,3,1,6,1,1,1,4,4,1},{1,1,2,
1,5,4,1,1,1,0,4,4},{1,1,2,3,5,5,3,1,3,4,4,1},{1,1,2,1,5,1,1,1,1,1,1,0},{0,1,2,1,5,4,3,1,3,3,1
,4},{0,1,2,3,5,5,1,1,1,0,4,4},{1,1,2,3,1,6,1,1,1,3,1,4},{0,1,2,1,5,1,3,1,3,4,4,1},{0,1,2,3,5,6
,1,1,1,1,1,0},{1,1,2,1,1,5,1,1,1,4,4,1},{1,1,2,1,5,4,3,1,3,1,1,0},{0,1,2,1,1,5,3,1,3,0,4,4},{1
,1,2,1,5,1,3,1,3,3,1,4},{0,1,2,1,5,4,1,1,1,4,4,1},{1,1,2,3,5,6,1,1,1,0,4,4},{0,1,2,3,5,5,3,1,
3,1,1,0},{1,1,2,3,1,6,3,1,3,4,4,1},{0,1,2,3,1,6,1,1,1,0,4,4},{1,1,2,1,5,4,1,1,1,3,1,4},{1,1,2,
3,5,5,3,1,3,0,4,4},{0,1,2,1,1,5,1,1,1,1,1,0},{1,1,2,3,5,6,3,1,3,1,1,0},{0,1,2,3,5,5,1,1,1,3,1
,4},{0,1,2,1,5,1,3,1,3,0,4,4},{0,1,2,3,5,6,1,1,1,4,4,1},{1,1,2,1,1,5,1,1,1,0,4,4},{1,1,2,1,5,4
,3,1,3,4,4,1},{1,1,2,3,5,5,1,1,1,1,1,0},{0,1,2,1,1,5,3,1,3,3,1,4},{1,1,2,3,5,6,1,1,1,3,1,4},{0
,1,2,3,5,5,3,1,3,4,4,1},{1,1,2,3,1,6,3,1,3,0,4,4},{0,1,2,1,5,1,1,1,1,1,1,0},

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n=(i-1)^2*(i+1)^3+97

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$$d=n^4-1+n^2$$

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$$s=\text{Mod}[d,5]$$

$$t=\text{Mod}[k,5]$$

$$QQ=\text{Transpose}[\{e,f,g,h,i,j,l,m,o,r,s,t\}]=\{0,1,2,1,5,1,3,1,3,0,4,4\},\{$$