

```
> # 素数便覧 10億までPG by H・E '20 - 3 - 25 :
```

```
> with(StringTools) : FormatTime("%Y-%m-%d-(%r)"); print(蛭子井博孝作成) :  
"2020-03-25-(03:46:21 AM)"  
蛭子井博孝作成
```

(1)

(2)

```
> ps := 2 : cs := 1 : tc := 0 : Ps := 0 : for x from 1 to 1000 do trc || x := 0 : od: print(Start,  
ps[ {cs} thp]) : for pcs from cs to 100000000 do P || 1 := ps : for n from 2 to 8 do P  
|| n := nextprime(P || (n - 1)) : S || n := P || n - P || (n - 1) : od: if S || 2 = Ps + 2 and S || 3  
= Ps + 4 and S || 4 = Ps + 6 and S || 5 = Ps + 8 and S || 6 = Ps + 10 and S || 7 = Ps + 12  
and S || 8 = Ps + 14 then tc := tc + 1 : print(2468 子 [Tc = tc], [seq( (P || j) ["+", 2*j  
+ Ps], j = 1 ..4)]) : print([seq( (P || j) ["+", 2*j + Ps], j = 5 ..7), P || 8]) : print( ) :  
Ps := Ps + 2 : fi: if pcs mod 1000000 = 0 then print(ps[pcs thp]) : fi: ps := P || 2 : od:  
Start, 2_{1} thp
```

```
2468 子Tc=1, [128981"+", 2, 128983"+", 4, 128987"+", 6, 128993"+", 8]  
[129001"+", 10, 129011"+", 12, 129023"+", 14, 129037]
```

```
154858631000000 thp
```

```
324528432000000 thp
```

```
499796873000000 thp
```

```
2468 子Tc=2, [60897163"+", 4, 60897167"+", 6, 60897173"+", 8, 60897181"+", 10]  
[60897191"+", 12, 60897203"+", 14, 60897217"+", 16, 60897233]
```

```
678679674000000 thp
```

```
860281215000000 thp
```

```
2468 子Tc=3, [95285633"+", 6, 95285639"+", 8, 95285647"+", 10, 95285657"+", 12]  
[95285669"+", 14, 95285683"+", 16, 95285699"+", 18, 95285717]
```

```
2468 子Tc=4, [95285639"+", 8, 95285647"+", 10, 95285657"+", 12, 95285669"+", 14]  
[95285683"+", 16, 95285699"+", 18, 95285717"+", 20, 95285737]
```

```
1043953016000000 thp
```

```
1229498237000000 thp
```

```
1416509398000000 thp
```

```
1604811839000000 thp
```

```
2468 子Tc=5, [178916671"+", 10, 178916681"+", 12, 178916693"+", 14, 178916707"+", 16]  
[178916723"+", 18, 178916741"+", 20, 178916761"+", 22, 178916783]
```

```
17942467310000000 thp
```

```
19849131711000000 thp
```

```
21764517712000000 thp
```

```
23688769113000000 thp
```

256203161₁₄₀₀₀₀₀₀ *thp*

275604541₁₅₀₀₀₀₀₀ *thp*

295075147₁₆₀₀₀₀₀₀ *thp*

314606869₁₇₀₀₀₀₀₀ *thp*

334214459₁₈₀₀₀₀₀₀ *thp*

353868013₁₉₀₀₀₀₀₀ *thp*

373587883₂₀₀₀₀₀₀₀ *thp*

393342739₂₁₀₀₀₀₀₀ *thp*

413158511₂₂₀₀₀₀₀₀ *thp*

433024223₂₃₀₀₀₀₀₀ *thp*

452930459₂₄₀₀₀₀₀₀ *thp*

472882027₂₅₀₀₀₀₀₀ *thp*

492876847₂₆₀₀₀₀₀₀ *thp*

512927357₂₇₀₀₀₀₀₀ *thp*

533000389₂₈₀₀₀₀₀₀ *thp*

553105243₂₉₀₀₀₀₀₀ *thp*

573259391₃₀₀₀₀₀₀₀ *thp*

593441843₃₁₀₀₀₀₀₀ *thp*

613651349₃₂₀₀₀₀₀₀ *thp*

633910099₃₃₀₀₀₀₀₀ *thp*

654188383₃₄₀₀₀₀₀₀ *thp*

674506081₃₅₀₀₀₀₀₀ *thp*

694847533₃₆₀₀₀₀₀₀ *thp*

715225739₃₇₀₀₀₀₀₀ *thp*

735632791₃₈₀₀₀₀₀₀ *thp*

756065159₃₉₀₀₀₀₀₀ *thp*

776531401₄₀₀₀₀₀₀₀ *thp*

2468 子_{T_c=6} [795969221_{"+"}, 12, 795969233_{"+"}, 14, 795969247_{"+"}, 16, 795969263_{"+"}, 18]
[795969281_{"+"}, 20, 795969301_{"+"}, 22, 795969323_{"+"}, 24, 795969347]

2468 子_{T_c=7} [795969233_{"+"}, 14, 795969247_{"+"}, 16, 795969263_{"+"}, 18, 795969281_{"+"}, 20]
[795969301_{"+"}, 22, 795969323_{"+"}, 24, 795969347_{"+"}, 26, 795969373]

797003413₄₁₀₀₀₀₀₀ *thp*

817504243₄₂₀₀₀₀₀₀ *thp*

838041641₄₃₀₀₀₀₀₀ *thp*

858599503₄₄₀₀₀₀₀₀ *thp*

879190747_{45000000 thp}
 899809343_{46000000 thp}
 920419813_{47000000 thp}
 941083981_{48000000 thp}
 961748927_{49000000 thp}
 982451653_{50000000 thp}
 1003162753_{51000000 thp}

(3)

> *ps* := 2 : *cs* := 1 : *tc* := 0 : *Ps* := 1 : **for** *x* **from** 1 **to** 1000 **do** *trc* || *x* := 0 : **od**: *print*(*Start*,
ps[{*cs*} *thp*]) : **for** *pcs* **from** *cs* **to** 100000000 **do** *P* || 1 := *ps* : **for** *n* **from** 2 **to** 8 **do** *P*
 || *n* := *nextprime*(*P* || (*n* - 1)) : *S* || *n* := *P* || *n* - *P* || (*n* - 1) **od**: **if** *S* || 2 = *Ps* · 2 **and** *S* || 3
 = *Ps* · 4 **and** *S* || 4 = *Ps* · 6 **and** *S* || 5 = *Ps* · 8 **and** *S* || 6 = *Ps* · 10 **and** *S* || 7 = *Ps* · 12 **and** *S* || 8
 = *Ps* · 14 **then** *tc* := *tc* + 1 : **if** *tc* ≤ 2 **then** *print*(*Ps* · [2, 4, 6, 8] $\bar{\tau}$ [*Tc* = *tc*], [*seq*((*P*
 || *j*) ["+", 2 · *j* · *Ps*], *j* = 1 ..4)]) : *print*([*seq*((*P* || *j*) ["+", 2 · *j* · *Ps*], *j* = 5 ..7), *P* || 8)) :
print() **else** *tc* := 0 : *Ps* := *Ps* + 1 **fi** **fi**: **if** *pcs* mod 1000000 = 0
then *print*(*ps*[{*pcs*} *thp*]) **fi**: *ps* := *P* || 2 : **od**:

Start, 2_{{1} thp}

[2, 4, 6, 8] $\bar{\tau}$ _{*Tc*=1}, [128981"+", 2, 128983"+", 4, 128987"+", 6, 128993"+", 8]
 [129001"+", 10, 129011"+", 12, 129023"+", 14, 129037]

15485863_{{1000000} thp}

[2, 4, 6, 8] $\bar{\tau}$ _{*Tc*=2}, [21456047"+", 2, 21456049"+", 4, 21456053"+", 6, 21456059"+", 8]
 [21456067"+", 10, 21456077"+", 12, 21456089"+", 14, 21456103]

32452843_{{2000000} thp}

49979687_{{3000000} thp}

67867967_{{4000000} thp}

86028121_{{5000000} thp}

104395301_{{6000000} thp}

2 [2, 4, 6, 8] $\bar{\tau}$ _{*Tc*=1}, [122742787"+", 4, 122742791"+", 8, 122742799"+", 12,
 122742811"+", 16]

[122742827"+", 20, 122742847"+", 24, 122742871"+", 28, 122742899]

122949823_{{7000000} thp}

141650939_{{8000000} thp}

160481183_{{9000000} thp}

179424673_{{10000000} thp}

198491317_{{11000000} thp}

217645177_{{12000000} thp}

236887691_{{13000000} thp}

256203161_{{14000000} thp}

275604541 {15000000} thp
295075147 {16000000} thp
314606869 {17000000} thp
334214459 {18000000} thp
353868013 {19000000} thp
373587883 {20000000} thp
393342739 {21000000} thp
413158511 {22000000} thp
433024223 {23000000} thp
452930459 {24000000} thp
472882027 {25000000} thp
492876847 {26000000} thp
512927357 {27000000} thp
533000389 {28000000} thp

(4)

(5)