

1. > # prime interval prime by H.E

```
> c := 0 : for h from 1 to 99 do IV := ithprime(h + 1) - ithprime(h) - 1 : if isprime(IV)
then c := c + 1 : print(ithprime(h), "-----", h th p) : print(Intv = IV[prime[c]])
else print(ithprime(h), "-----", h th p) : print(Intv = IV) fi:od: print(ithprime(h),
"-----", h th p) :
```

```
2, "-----", 2 th p
      Intv = 0
3, "-----", 2 th p
      Intv = 1
5, "-----", 3 th p
      Intv = 1
7, "-----", 4 th p
      Intv = 3prime1
11, "-----", 5 th p
      Intv = 1
13, "-----", 6 th p
      Intv = 3prime2
17, "-----", 7 th p
      Intv = 1
19, "-----", 8 th p
      Intv = 3prime3
23, "-----", 9 th p
      Intv = 5prime4
29, "-----", 10 th p
      Intv = 1
31, "-----", 11 th p
      Intv = 5prime5
37, "-----", 12 th p
      Intv = 3prime6
41, "-----", 13 th p
      Intv = 1
43, "-----", 14 th p
      Intv = 3prime7
47, "-----", 15 th p
      Intv = 5prime8
53, "-----", 16 th p
      Intv = 5prime9
59, "-----", 17 th p
      Intv = 1
61, "-----", 18 th p
```

$Intv = 5_{prime_{10}}$
67, "-----", 19 *thp*
 $Intv = 3_{prime_{11}}$
71, "-----", 20 *th p*
 $Intv = 1$
73, "-----", 21 *thp*
 $Intv = 5_{prime_{12}}$
79, "-----", 22 *thp*
 $Intv = 3_{prime_{13}}$
83, "-----", 23 *thp*
 $Intv = 5_{prime_{14}}$
89, "-----", 24 *thp*
 $Intv = 7_{prime_{15}}$
97, "-----", 25 *thp*
 $Intv = 3_{prime_{16}}$
101, "-----", 26 *th p*
 $Intv = 1$
103, "-----", 27 *thp*
 $Intv = 3_{prime_{17}}$
107, "-----", 28 *th p*
 $Intv = 1$
109, "-----", 29 *thp*
 $Intv = 3_{prime_{18}}$
113, "-----", 30 *thp*
 $Intv = 13_{prime_{19}}$
127, "-----", 31 *thp*
 $Intv = 3_{prime_{20}}$
131, "-----", 32 *thp*
 $Intv = 5_{prime_{21}}$
137, "-----", 33 *th p*
 $Intv = 1$
139, "-----", 34 *th p*
 $Intv = 9$
149, "-----", 35 *th p*
 $Intv = 1$
151, "-----", 36 *thp*
 $Intv = 5_{prime_{22}}$

157, "-----", 37 *thp*
*Intv = 5*_{prime₂₃}

163, "-----", 38 *thp*
*Intv = 3*_{prime₂₄}

167, "-----", 39 *thp*
*Intv = 5*_{prime₂₅}

173, "-----", 40 *thp*
*Intv = 5*_{prime₂₆}

179, "-----", 41 *th p*
Intv = 1

181, "-----", 42 *th p*
Intv = 9

191, "-----", 43 *th p*
Intv = 1

193, "-----", 44 *thp*
*Intv = 3*_{prime₂₇}

197, "-----", 45 *th p*
Intv = 1

199, "-----", 46 *thp*
*Intv = 11*_{prime₂₈}

211, "-----", 47 *thp*
*Intv = 11*_{prime₂₉}

223, "-----", 48 *thp*
*Intv = 3*_{prime₃₀}

227, "-----", 49 *th p*
Intv = 1

229, "-----", 50 *thp*
*Intv = 3*_{prime₃₁}

233, "-----", 51 *thp*
*Intv = 5*_{prime₃₂}

239, "-----", 52 *th p*
Intv = 1

241, "-----", 53 *th p*
Intv = 9

251, "-----", 54 *thp*
*Intv = 5*_{prime₃₃}

257, "-----", 55 *thp*

$Intv = 5_{prime_{34}}$
263, "-----", 56 *thp*
 $Intv = 5_{prime_{35}}$
269, "-----", 57 *th p*
 $Intv = 1$
271, "-----", 58 *thp*
 $Intv = 5_{prime_{36}}$
277, "-----", 59 *thp*
 $Intv = 3_{prime_{37}}$
281, "-----", 60 *th p*
 $Intv = 1$
283, "-----", 61 *th p*
 $Intv = 9$
293, "-----", 62 *thp*
 $Intv = 13_{prime_{38}}$
307, "-----", 63 *thp*
 $Intv = 3_{prime_{39}}$
311, "-----", 64 *th p*
 $Intv = 1$
313, "-----", 65 *thp*
 $Intv = 3_{prime_{40}}$
317, "-----", 66 *thp*
 $Intv = 13_{prime_{41}}$
331, "-----", 67 *thp*
 $Intv = 5_{prime_{42}}$
337, "-----", 68 *th p*
 $Intv = 9$
347, "-----", 69 *th p*
 $Intv = 1$
349, "-----", 70 *thp*
 $Intv = 3_{prime_{43}}$
353, "-----", 71 *thp*
 $Intv = 5_{prime_{44}}$
359, "-----", 72 *thp*
 $Intv = 7_{prime_{45}}$
367, "-----", 73 *thp*
 $Intv = 5_{prime_{46}}$

373, "-----", 74 *thp*
*Intv = 5_{prime}*₄₇

379, "-----", 75 *thp*
*Intv = 3_{prime}*₄₈

383, "-----", 76 *thp*
*Intv = 5_{prime}*₄₉

389, "-----", 77 *thp*
*Intv = 7_{prime}*₅₀

397, "-----", 78 *thp*
*Intv = 3_{prime}*₅₁

401, "-----", 79 *thp*
*Intv = 7_{prime}*₅₂

409, "-----", 80 *th p*
Intv = 9

419, "-----", 81 *th p*
Intv = 1

421, "-----", 82 *th p*
Intv = 9

431, "-----", 83 *th p*
Intv = 1

433, "-----", 84 *thp*
*Intv = 5_{prime}*₅₃

439, "-----", 85 *thp*
*Intv = 3_{prime}*₅₄

443, "-----", 86 *thp*
*Intv = 5_{prime}*₅₅

449, "-----", 87 *thp*
*Intv = 7_{prime}*₅₆

457, "-----", 88 *thp*
*Intv = 3_{prime}*₅₇

461, "-----", 89 *th p*
Intv = 1

463, "-----", 90 *thp*
*Intv = 3_{prime}*₅₈

467, "-----", 91 *thp*
*Intv = 11_{prime}*₅₉

479, "-----", 92 *thp*

$Intv = 7_{prime_{60}}$
487, "-----", 93 *thp*
 $Intv = 3_{prime_{61}}$
491, "-----", 94 *thp*
 $Intv = 7_{prime_{62}}$
499, "-----", 95 *thp*
 $Intv = 3_{prime_{63}}$
503, "-----", 96 *thp*
 $Intv = 5_{prime_{64}}$
509, "-----", 97 *thp*
 $Intv = 11_{prime_{65}}$
521, "-----", 98 *th p*
 $Intv = 1$
523, "-----", 99 *thp*
 $Intv = 17_{prime_{66}}$
541, "-----", 100 *th p*

(1)

