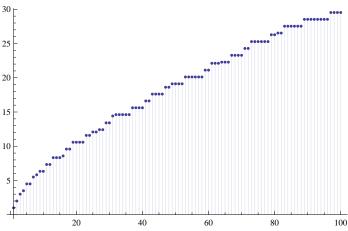
```
Limit[(1 + Log[x] / n) ^n, {n \rightarrow Infinity}]
K[n_{-}, 0] := K[n, 0] = If[n = 1, 1, 0]
K[n_{-}, 1] := K[n, 1] = If[n = 1, 0, FullSimplify[MangoldtLambda[n] / Log[n]]]
K[n_{,k_{]}} := K[n,k] = Sum[K[j,k-1]K[n/j,1], {j, Divisors[n]}]
K2[n_] := K2[n] = Sum[(-1)^(k+1)/kK[n,k], \{k, 1, Log[2, n]\}]
PK2[n_{,0}] := PK2[n,0] = 1
PK2[n_{1}, 1] := PK2[n, 1] = Sum[K2[j], {j, 2, n}]
PK2[n_{,k_{||}}] := PK2[n,k] = Sum[K2[j]PK2[Floor[n/j],k-1], \{j,2,n\}]
Table[PK2[n, 1], {n, 2, 100}]
                     13 19 11 14 11 8 65 89
\{1, 2, 2, 3, 2, 3, \frac{1}{6}, \frac{1}{6}\}
 113 89 113 35 35 27 85 97
                                      169
                                          193
                                               973
                                                    853
                                                         733
                                 121
                      8 24 24
         24 ′
                                  24
                                       24
                                           24
                                               120
                                                    120 120 120
 523 643 523 403 121 161 241
                                  281
                                      301
                                           321
                                                281
                                                     321
     120 120 120 40
                         40
                              40
                                   40
                                       40
          983 1103 1063 943 301
                                    261 221 261
                                                   181
                                                        221 181 201
               120 120 120 40 40 40 40
      120 120
                                                   40
                                                        40
 120
 911
      731 1091 1271
                     1361 1181 1541 1721 1841
                                                  2021
                                                        1841 1931
          180
                180
                      180
                           180
                                 180
                                       180
                                             180
     180
                                                   180
 2021
      1841 2201 2381 2411 4837
                                  4477
                                        4837
                                              4117
                                                    3757 3397 3037
                                                    360 360 360
 180
                        180
                              360
                                   360
                                         360
                                               360
       180
             180
                  180
            2557
                  2197
                        2377
                             2017 1657 1297
                                              251
 2917
       3277
                                                   323
                                                       359 395 341
      360 360 360 360 360 360 360 360 72 72 72 72 72
PA[100, 1] - 1
428
15
DiscretePlot[PA[n, 1], {n, 1, 100}]
```



## ${\tt DiscretePlot[PA[n,1],\{n,1,100\}]}$

