```
f[x_{-}, y_{-}] := Module[\{\}, If[Sin[Min[x * Sin[y], y * Sin[x]]] > Cos[Max[x * Cos[y], y * Cos[x]]] + Cos[x]]
     (((2(x-y)^2+(x+y-6)^2)/40)^3)/6400000+(12-x-y)/30,1,0]]
AbsoluteTiming[\delta = 0.02;
 range = 11;
 xyPoints = Table[{x, y}, {y, 0, range, \delta}, {x, 0, range, \delta}];
 image = Map[f@@#&, xyPoints, {2}];]
{5.3923085, Null}
f = Compile[{{x, _Real}, {y, _Real}},
   If[Sin[Min[x * Sin[y], y * Sin[x]]] > Cos[Max[x * Cos[y], y * Cos[x]]] +
      (((2(x-y)^2+(x+y-6)^2)/40)^3)/6400000+(12-x-y)/30,1,0]];
AbsoluteTiming[\delta = 0.02;
 range = 11;
 xyPoints = Table[{x, y}, {y, 0, range, \delta}, {x, 0, range, \delta}];
 image = Map[f@@#&, xyPoints, {2}];]
{0.7410424, Null}
f = Compile[{\{x, _Real\}, \{y, _Real\}\}, If[Sin[Min[x * Sin[y], y * Sin[x]]]} >
     (12 - x - y) / 30, 1, 0], CompilationTarget \rightarrow "C"];
AbsoluteTiming[\delta = 0.02;
 range = 11;
 xyPoints = Table[{x, y}, {y, 0, range, \delta}, {x, 0, range, \delta}];
 image = Map[f@@#&, xyPoints, {2}];]
{0.5620321, Null}
p[n_{-}, j_{-}, k_{-}, d_{-}] := If[n < j, 0, d(1./k-p[n/j, 1+d, k+1, d]) + p[n, j+d, k, d]]
AbsoluteTiming[p[6, 1.1, 1, .1]]
{8.6284936, 3.123}
AbsoluteTiming[p2[5, 1.07, 1, .07]]
{1.2570719, 2.62433}
LogIntegral[7.] - Log[Log[7.]] - EulerGamma
3.51411
p = Compile[{{n, _Real}, {j, _Real}, {k, _Real}, {d, _Real}},
   z = .07;
AbsoluteTiming[
 Table[\{n, N[LogIntegral[n] - Log[Log[n]] - EulerGamma], p[n, 1+z, 1, z]\}, \{n, 2, 7\}]]
$Aborted
```