```
pp[n_] := 4 Sum[1, {j, 1, Floor[n]}, {k, 1, Floor[n^2 - j^2]}]
pp[100]
2646600
N[Pi 100^2]
31415.9
bin[z_{,k_{]}} := Product[z-j, {j, 0, k-1}] / k!
FI[n_] := FactorInteger[n]; FI[1] := {}
dz[n_{-}, z_{-}] := dz[n, z] = Product[(-1)^p[[2]] Binomial[-z, p[[2]]], \{p, FI[n]\}]
\texttt{tt}[\texttt{n}_{\_}] := \texttt{Sum}[\ dz[\texttt{m}, -1], \{\texttt{j}, 1, n\}, \{\texttt{k}, 1, n / \texttt{j}\}, \{\texttt{l}, 1, n / (\texttt{j}\texttt{k})\}, \{\texttt{m}, 1, (n / (\texttt{j}\texttt{k}1)) ^ (1 / 2)\}]
\texttt{ttb}[n\_] := Sum[\,dz[j,\,3]\,dz[m,\,-1]\,,\,\{j,\,1,\,n\}\,,\,\{m,\,1,\,(n\,/\,j\,)\,^{\wedge}\,(1\,/\,2)\,\}]
tta[n_] := Sum[dz[j^2, 2], {j, 1, n}]
td[n_{-}] := Sum[dz[o, -1], {j, 1, n}, {k, 1, n / j},
   \{1, 1, n/(jk)\}, \{m, 1, n/(jkl)\}, \{o, 1, (n/(jklm))^(1/2)\}
tdb[n_] := Sum[dz[j, 4]dz[o, -1], {j, 1, n}, {o, 1, (n/j)^(1/2)}]
tda[n_] := Sum[dz[j, 2]^2, {j, 1, n}]
tt[100]
1194
tta[100]
1194
ttb[100]
1194
td[100]
3046
tda[100]
3046
tdb[100]
3046
```