$f_{i} = log(n^n)$ $log(n^n) = n log n$ $f_1 = 2^n O(2^n) O(f_1) < O(f_2)$ f₂ = 6006 0(6006) O(n logn) $f_{3} = 2 \qquad 0(f_{u}) < 0(f_{3})$ $f_{4} = 6006 \qquad 0(f_{u}) > 0(f_{5})$ $f_{5} = 6006 \qquad 0(f_{4}) > 0(f_{5})$ $\left(f_2 = \left(\log n \right)^n \right)$ O((logn)) 13-log (N6001) 2 f₁, f₂, f₃, f₃ \ \ $\begin{array}{l}
O(\log n) \\
4 = (\log n)^{6006}
\end{array}$ O((log n)600s) f = log log (600 6 m) V O(log (log (n))) 2 fs, fg, fu, fz 3 £ fs, fa, f, tz} O((loyn)6006) < O(n logn) $\begin{cases}
\frac{1}{\sqrt{2}} & \frac{1}{\sqrt{6}} & \frac{1}{\sqrt{6}} \\
\frac{1}{\sqrt{6}} & \frac{1}{\sqrt{6}} & \frac{1}{\sqrt{6}} \\
\frac{1}{\sqrt{6}} & \frac{1}{\sqrt{6}} & \frac{1}{\sqrt{6}} & \frac{1}{\sqrt{6}} \\
\frac{1}{\sqrt{6}} & \frac{1}{\sqrt{6}} & \frac{1}{\sqrt{6}} & \frac{1}{\sqrt{6}} & \frac{1}{\sqrt{6}} & \frac{1}{\sqrt{6}} \\
\frac{1}{\sqrt{6}} & \frac{1}{\sqrt{6}} &$ $f_{i} = v^{n} O(n^{n})$ $t_2 = (N) \sim N^6 O(N^6)$ $f_3 = (6n^9)$ $O(n^9)$ $\sqrt{2\pi} \frac{5}{6} n \left(\frac{5n}{6e}\right)^{\frac{5}{6}n}$



