$$
\begin{aligned}
& \text { Andysis } \\
& \text { def sum( } N \text { ): } \\
& \text { total }=0 \\
& \text { for } \mathrm{i} \text { in range( } \mathrm{N}) \text { : } \\
& \text { \#total += } i^{*} i^{*} \mid \\
& \text { total }=\text { total }+i^{*} i^{*}{ }_{i} \\
& \text { return total } \\
& \text { ansi wheat: I step } \\
& {\left[\begin{array}{l}
\text { Land }+2 \text { malt } s=3 \text { steps } \\
\text { update } i=1 \text { step } \\
\text { return }=1 \text { stop }
\end{array}\right]} \\
& \begin{array}{l}
\text { return }=1 \text { step } \\
\text { total }
\end{array} \\
& \begin{array}{l}
=1+4 N+1=4 N+2 \\
\Rightarrow 0(N)
\end{array} \\
& \text { def intro(): } \\
& \text { print("Hello") } \leftarrow k \text { steps }] \begin{array}{l}
\text { total } \operatorname{steps}=k \\
\Rightarrow O(1) \text { constant aitwr } \\
\text { time agon }
\end{array}
\end{aligned}
$$

