

* 4 3 6 2 5

Digit $\Rightarrow 5$

power $\Rightarrow (0 - 4)$

$\Rightarrow 10^0, 10^1, 10^2, 10^3, 10^4$

1. $43625 / 10^4 \Rightarrow 4$

$\Downarrow \% 10^4$

2. $3625 / 10^3 \Rightarrow 3$

$\Downarrow \% 10^3$

3. $625 / 10^2 \Rightarrow 6$

$\Downarrow \% 10^2$

4. $25 / 10^1 \Rightarrow 2$

$\Downarrow \% 10^1$

5. $5 / 10^0 \Rightarrow 5$

Pseudocode

\rightarrow count digit

\rightarrow create divisor $\Rightarrow 10^{(\text{digit}-1)}$

\rightarrow while (divisor)

- ↳ number/divisor
- ↳ point
- ↳ number % divisor
- ↳ divisor/10

Time comp $\rightarrow O(\log_{10}(n))$

Space comp $\rightarrow O(1)$