

- ① how to measure efficiency of code? what is efficient? how fast
- ② how to know how efficient code is? done

What is efficient code?

↳ time & space taken to run code

↳ number of steps for algo to complete

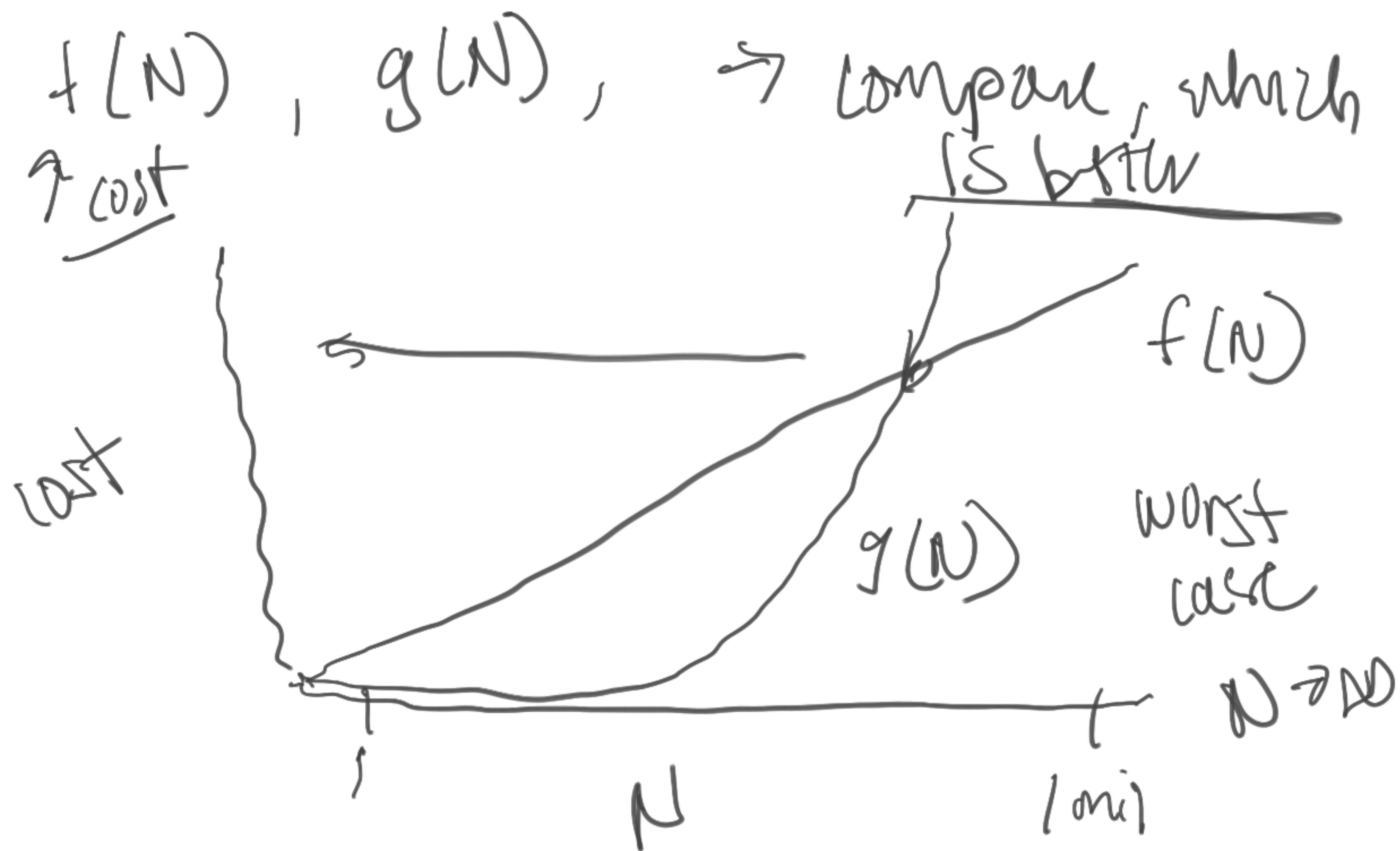
① get the cost func by country  
the number of steps of  
each line

$$f(N) = \underbrace{N^2}_{D(N^2)} + 4$$

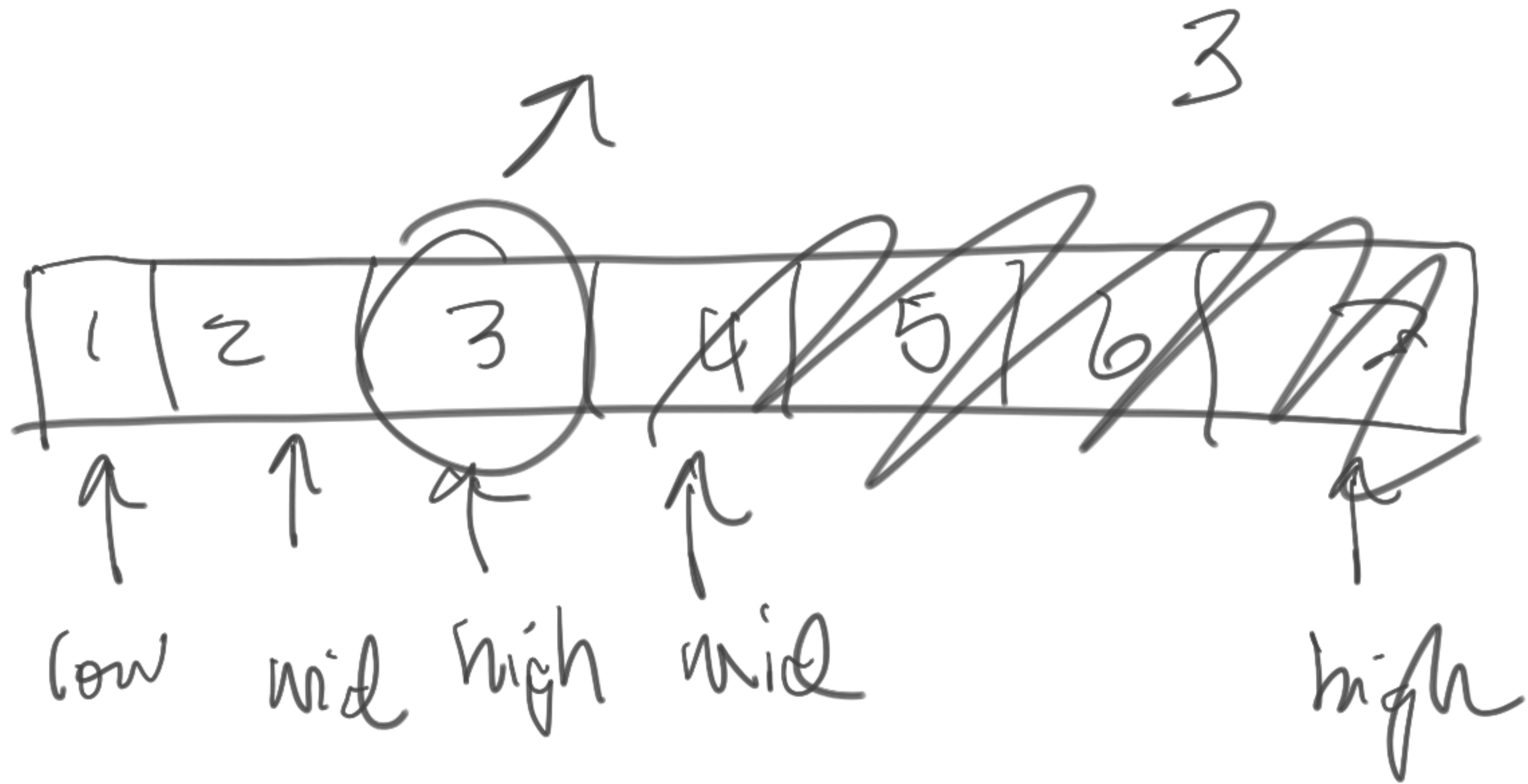
$$g(N) = \underbrace{N}_{D(N)} + 3$$

② which is better / faster?

biggest  
order  
operation  
&  
Big-O







$\log N$