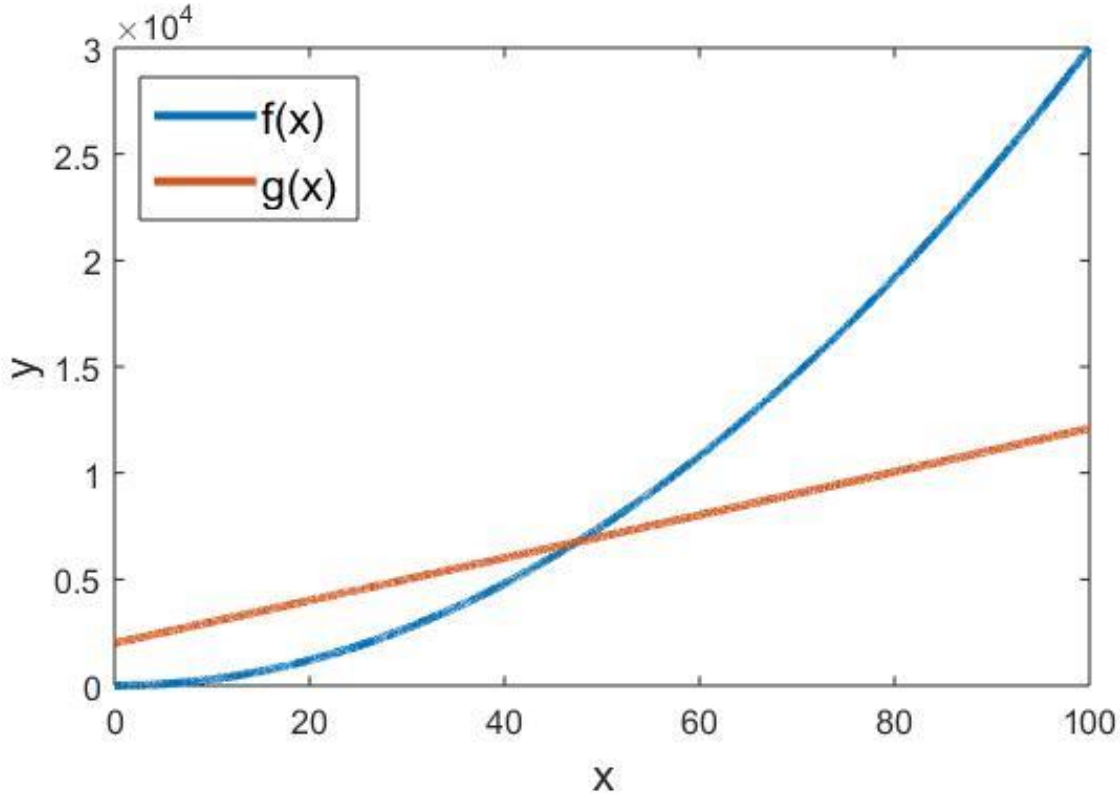
Clicker question #1

What is the relationship between $f(x)$ and $g(x)$?

A. $f(x) \in O\big(g(x)\big)$
B. $f(x) \in \Theta\big(g(x)\big)$
C. $f(x) \in \Omega(g(x))$
D. None of the above relations hold for all x
E. Impossible to determine



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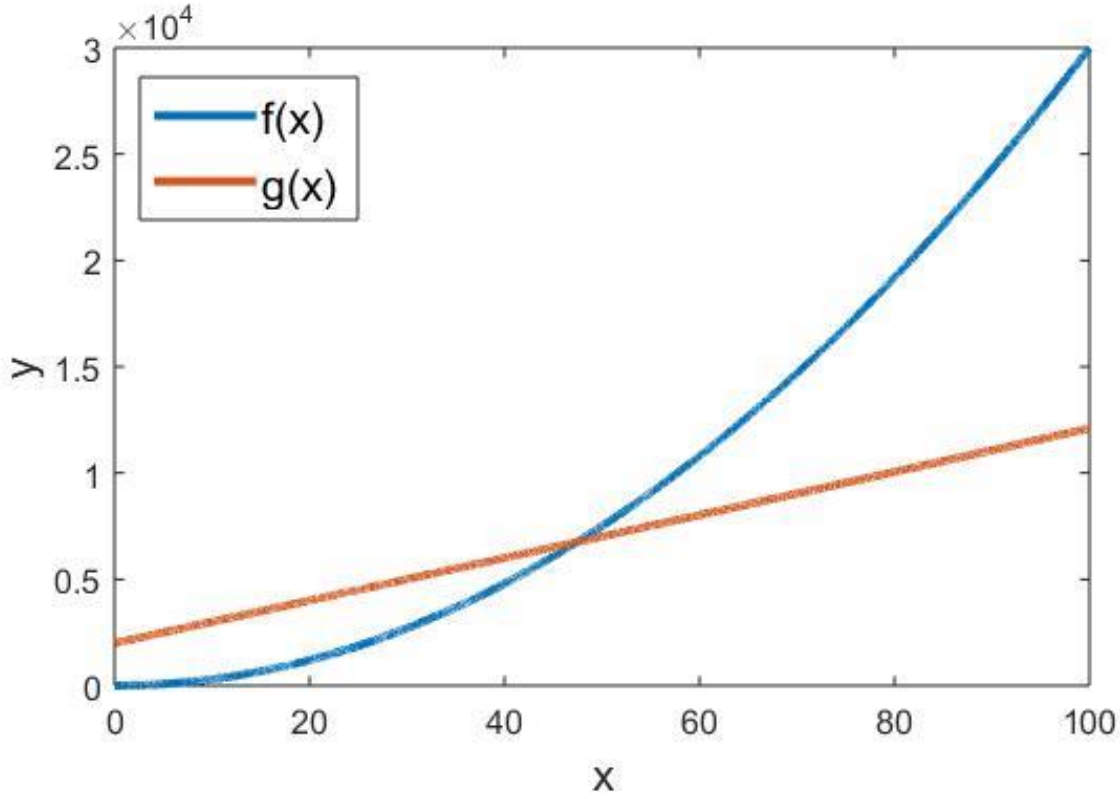

Clicker question #1

$$f(x) = 3x^2$$

$$g(x) = \frac{1}{1000}x^3 + 100x + 2000$$

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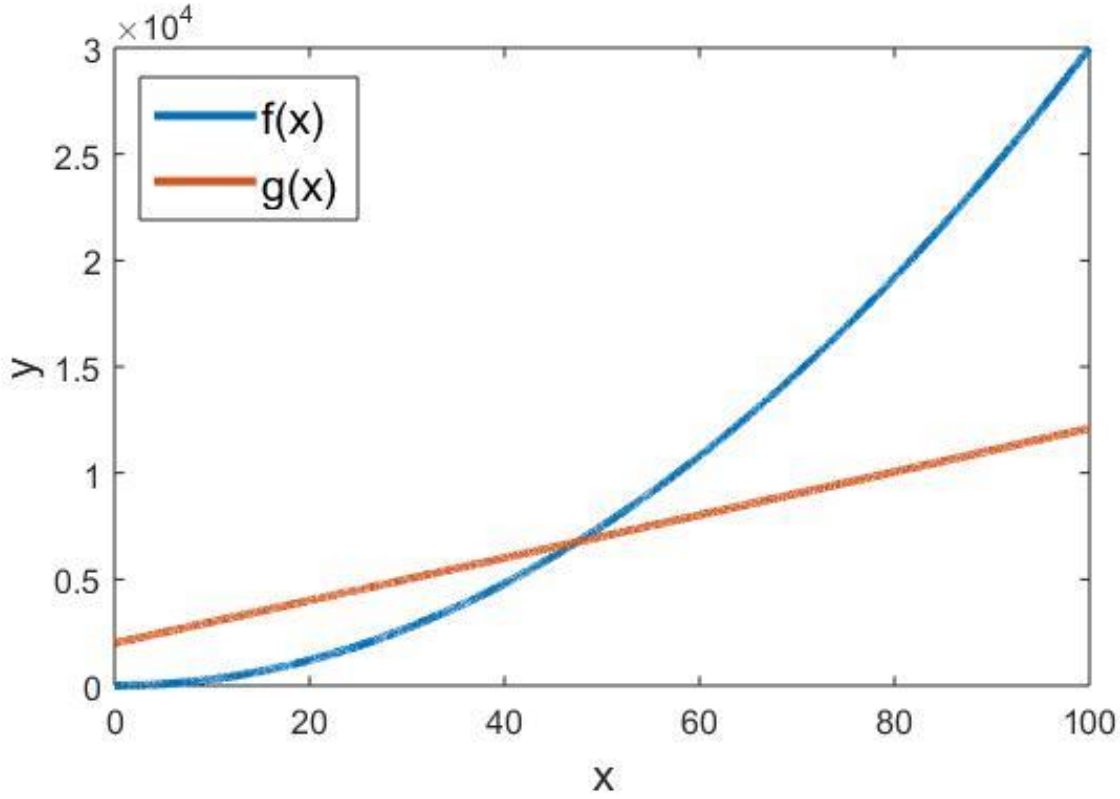

Clicker question #2

Which is the **worst** (i.e., fastest-growing) of the following runtimes?

A. $\log(n^{100})$

B. $(\log n)^{100}$

C. $\sqrt[100]{n}$

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A. $\log(n^{100})$

B. $(\log n)^{100}$

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