



DIVERSITY IN TECH



SEPTEMBER 23RD, 5-6PM

TICKNOR LOUNGE, BOYLSTON HALL



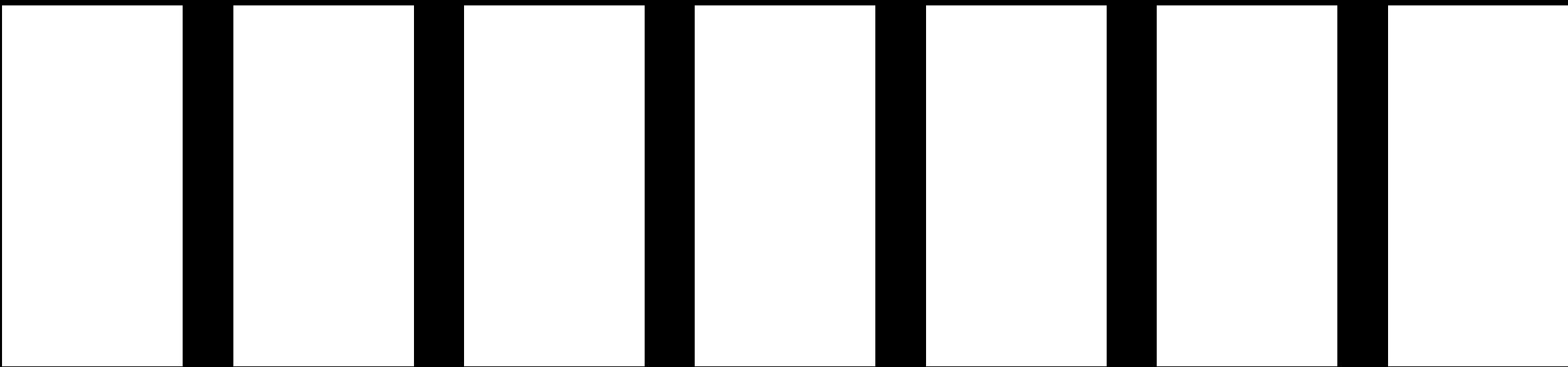
lunch this Fri 9/25

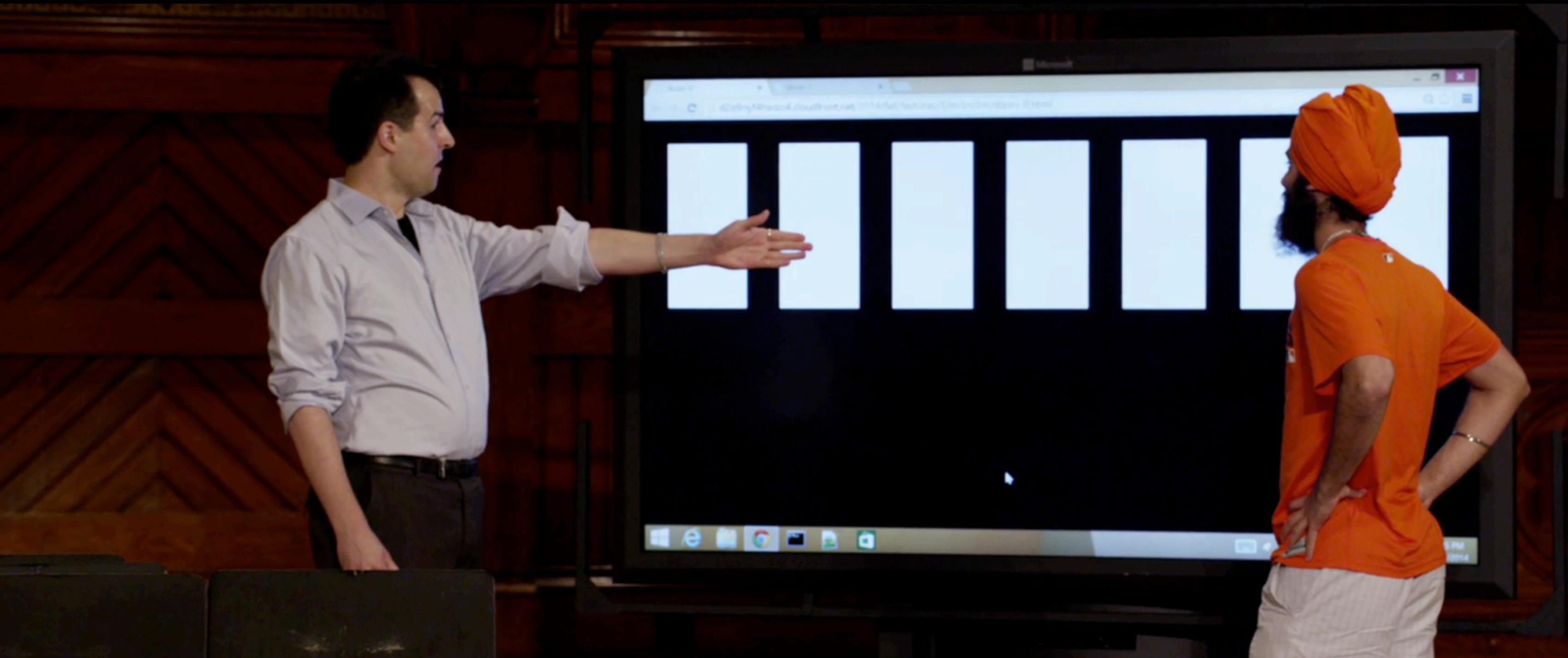
/rsvp

lecture this Wed 9/23
online only

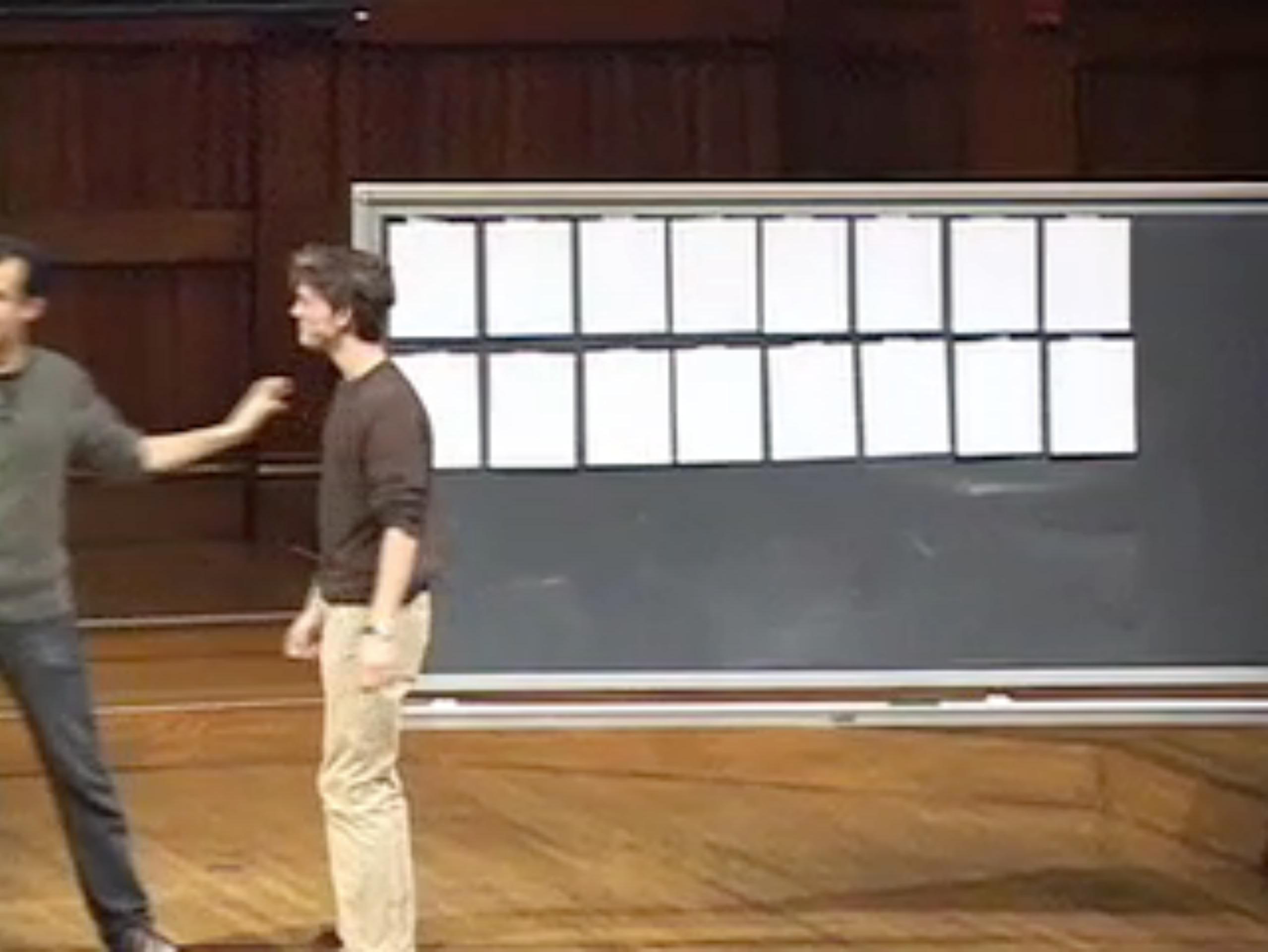
problem set 2











Examination Book



Name _____

Subject _____

Instructor _____

Section _____ Class _____

Date _____ Book No._____

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4

2

6

8

1

3

7

5

bubble sort

selection sort

insertion sort

bubble sort

($n - 1$)

$$(n-1)+(n-2)$$

$$(n-1)+(n-2)+\ldots+1$$

$$(n-1)+(n-2)+\ldots+1$$

$$n(n-1)/2$$

$$(n-1)+(n-2)+\ldots+1$$

$$n(n-1)/2$$

$$(n^2-n)/2$$

$$(n-1)+(n-2)+\ldots+1$$

$$n(n-1)/2$$

$$(n^2-n)/2$$

$$n^2/2 - n/2$$

1,000,000

$$n^2/2-n/2$$

$$n^2/2 - n/2$$

$$1,000,000^2/2 - 1,000,000/2$$

$$n^2/2 - n/2$$

$$1,000,000^2/2 - 1,000,000/2$$

$$500,000,000,000 - 500,000$$

$$n^2/2 - n/2$$

$$1,000,000^2/2 - 1,000,000/2$$

$$500,000,000,000 - 500,000$$

$$499,999,500,000$$

$$n^2/2 - n/2$$

$$O(n^2)$$

O

$O(n^2)$

$O(n \log n)$

$O(n)$

$O(\log n)$

$O(1)$

...

$O(n^2)$

$O(n \log n)$

$O(n)$

$O(\log n)$

$O(1)$

...

$O(n^2)$

$O(n \log n)$

$O(n)$

$O(\log n)$

$O(1)$

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$O(n^2)$

$O(n \log n)$

$O(n)$

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$O(1)$

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$O(n^2)$

$O(n \log n)$

$O(n)$

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$O(1)$

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Ω

$\Omega(n^2)$

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