

Music 256a | Totally Random Pop Quiz!!  
Instructor: Ge Wang, CCRMA, Stanford University  
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Name (optional): \_\_\_\_\_

1. When should one optimize software? (circle all that applies)

- a. Always!
- b. Never!
- c. It depends!
- d. Late at night!
- e. I don't know!

2. Fill in the blanks: *Design* \_\_\_\_\_ : *Hack* \_\_\_\_\_.

- a. Endlessly : Occasionally
- b. Slowly : Rapidly
- c. Cautiously : Ruthlessly
- d. Globally : Locally
- e. Never! : Always!

3. Write the average running time of the following algorithms. Choices include  $O(1)$ ,  $O(\log n)$ ,  $O(n)$ ,  $O(n \log n)$ ,  $O(n^2)$ ,  $O(n^3)$ ,  $O(n!)$ .

Fast Fourier Transform	
Bogosort (average case)	
FFT convolution	
Time-domain convolution, loop unrolled (as shown in class)	
Bubble sort	

4. Please jot down one (potentially burning) question you have (regarding 256a so far and/or life). If you have no questions at this time, please draw a pretty picture.