

Quiz 3

Question 1 (3 pts)

How many interchange you need to make when using Bubble sort to put 4,5,2,3,1 into increasing order?

- ☐ 6
 - ☐ 9
 - ☐ 7
 - ☐ 8
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Question 2 (3 pts)

Which of the following functions is $O(x^2)$:

$$f(x) = 3x^2 + \ln(x), g(x) = 2 + x \ln(x), h(x) = x^2 \ln(x) + 5x + 1,$$

- ☐ f(x) and g(x)
 - ☐ f(x) only
 - ☐ all three functions
 - ☐ f(x) and h(x)
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Question 3 (2 pts)

What is the hexadecimal expansion of number 1894047932

- ☐ 70E4E0BC
 - ☐ 70D4E0BC
 - ☐ 70E4E0AC
 - ☐ 70E5E0BC
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Question 4 (2 pts)

Which of the following is the correct binary representation of $(8C2AF)_{16}$

- ☐ 10001100101010101111
- ☐ 10001100001011101111
- ☐ 10001100001010100111

☐ 10001100001010101111