

CSI33 Chapter 11

True/False questions (p. 422)

- 1) **True** (you can find explanation on p.413 – the last paragraph, and the code of append operation that requires allocation on the very next page, on top)
- 2) **True** (vice versa is false)
- 3) **False** (vice versa is true)
- 4) **True**
- 5) **False** (if it is a pointer, then we need to re-work the code)

Multiple Choice questions (p. 423)

- 1) a)
- 2) c) $\Theta(n)$
- 4) c) $\Theta(n)$

Short Answer Questions (p. 424):

- 1) I'd say **4 (capacity + 3)** for 32-bit system and **8(capacity + 3)** for 64-bit systems.
Where capacity is $\geq n$, but on average, the difference between n and capacity is small.
- 2) I'd say $4(2n) = \mathbf{8n}$ for 32-bit systems and $8(2n) = \mathbf{16n}$ for 64-bit systems
each node has two vars (value and link/reference to the next node)