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| **1. Computer Number Systems**  Convert to octal:  3A9B16 | **1.** |
| **2. Computer Number System:**  Evaluate and express the answer in hex:  328 + 10112 + 35210 + AF16 | **2.** |
| **3. Recursive Functions**  Begin with a capital T consisting of 2 congruent segments.  At the end of each segment place a segment half as long and perpendicular  to it. Continue this process for an additional 5 times. How many segments  are in the resulting figure? | **3.** |
| **4. Recursive Functions**  Find  given: | **4.** |
| **5. What Does This Program Do?**  What is outputted when this program is run?  a = 1: b = 2: c = 3: d = 4: e = 4: f = 6  if (d / b) < (f / a) then d = d / b  a = f ↑ b / c ↑ (d / b)  if (a <= f) && (b > e) then a = f else b = e  if abs(c - f) != int(f / c) then c = f / c else f = f / c  if (a = = b) | | (c = = d) then a = a + b  c = c + d  output (b \* c) \* (f + d) / a / 2 \* d - c + e ↑ (b - 2 \* d) | **5.** |