

CSCE 531 Spring 2007
QUIZ 8
Assigned Wednesday, 07-04-11

1. In the iterative interpreter for Mini-Basic described in the last lecture (and in section 8.1.3 of the text), how are commands represented in the code store? (Choose one.) **Answer:** Token sequence
 - (a) Source text
 - (b) Token sequence
 - (c) AST
2. Representing Mini-Basic commands as source text in the code store would (a) slow down loading, but speed up analysis within the fetch-analyze interpreter cycle, or (b) speed up loading, but slow down analysis within the fetch-analyze-execute interpreter cycle. (Choose one.) **Answer:** (b)
3. Here is the code for the Mini-Basic interpreter proper:

```
public void run() {
    // Initialize...
    CP = 0; status = RUNNING;

    do {
        // Fetch the next instruction...
        ScannedCommand scannedCom = code[CP++];

        // Analyze this instruction...
        Command analyzedCom = parse(scannedCom);

        // Execute this instruction...
        analyzedCom.execute((MiniBasicState) this);
    } while (status == RUNNING);
}
```

What is CP? **Answer:** The code pointer