

Concepts of Programming Languages, CSCI 305, Fall 2021
Categories of errors class exercise, Aug. 30

The following code snippets contain errors. For each of the code snippets tell if the error is a:

- a) syntax error detected by the lexical analyzer
- b) syntax error detected by the parser
- c) static semantic analysis error
- d) dynamic semantic analysis error
- e) compiler can't catch, may be caught by the hardware

1.

```
void main ( ) {  
    int x=0;  
    x=x+y;  
}
```

2.

```
void main ( ) {  
    in a, b, c;  
}
```

3.

```
void main ( ) {  
    int b[ ] = { 1, 2, 3 };  
    int index = 9;  
    int a;  
    a = b[index];  
}
```