

# Project1 Output Format

- **Syntactically Legal Program**

Use indentation (2 spaces) to represent tree level

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For nonterminals, print “NAME (Lineno)”

`Specifier (2)`

(Lineno is first line of the nonterminal)

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For INT/FLOAT/CHAR terminals, print “NAME: attribute”

**INT: 1**

(For hex-int, output its decimal form, hex-char output its hex-form)

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For ID terminals, print “ID: identifier”

ID: my\_struct

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For TYPE terminals, print “TYPE: type”

TYPE: int

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For other terminals, print “NAME”

SEMI

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- **Lexical Error**

Print the error type, with meaningful message

Error type A at Line #: (msg)

(only the type and lineno will be checked)

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- **Syntax Error**

Print the error type, with meaningful message

```
Error type B at Line #: (msg)
```

(only the type will be checked)



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- **Bonus - preprocessors**

If you implement preprocessor, try to make it more powerful.

For file inclusion, insert the file content as part of syntax tree.

For macro, replace its usages (also the arguments).