Compiler:
Translator:
- Assemble code from one language to another
- Usually high-level language
- Usually target language
- Compiler vs. interpreter?
- Java -> Byte code

First code:
```plaintext
// Whatever
int main()
{
    int a, b, c;
    a = 5;
    b = 10;
    c = a + b;
    return c;
}
```

Semantic checker:
- type errors
- type conversions
- declarations

Syntax tree:
```
    +
   /|
   +|
   /|
   +|
   /
  a  b
```

High-level view:
```
Main
  +-- Assembly
  |    +-- Linking
  |       +-- Loading
  |           +-- Running
  +-- Execution
```

Pipeline view:
```
  Assembly
  +-- Linking
  |    +-- Loading
  |         +-- Running
  +-- Execution
```