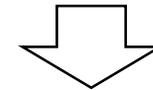
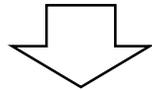


CARL Compilation Flow

```
hello.carl (Program)  
BEGIN { print 42; }  
\w*43\w* {print $0;}
```

```
Input Text File  
Jane 555-4433  
Bill 444-3322
```



```
Compiler Source Code  
scanner.mll, parser.mly,  
ast.ml, sast.ml,  
codegel.ml, semant.ml,  
convert.ml(?)
```

```
CARL Executable
```

```
hello.ll (LLVM)  
@NPAT ...  
@RS ...
```

```
Hello Executable
```

```
42  
Jane 555-4433
```

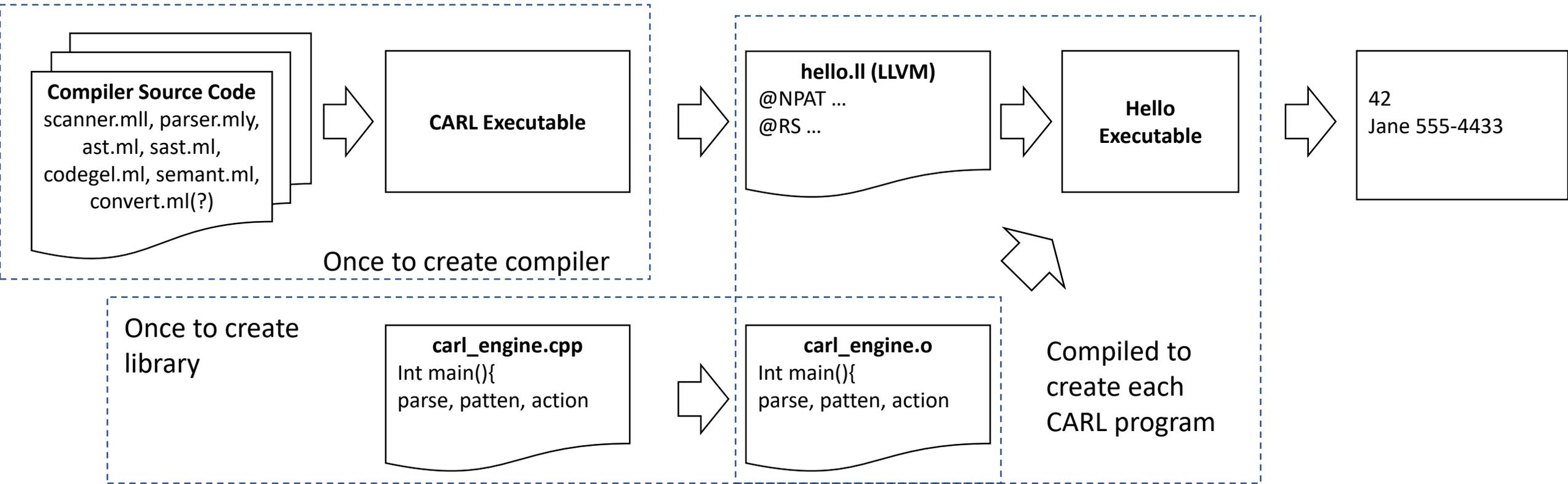
Once to create compiler

Once to create library

```
carl_engine.cpp  
Int main(){  
parse, patten, action
```

```
carl_engine.o  
Int main(){  
parse, patten, action
```

Compiled to create each CARL program



carl_engine.cpp

```
Int main(){
  opens the file;
  parse using RS, FS
  make_c_arrays
  for (int i; i < NPAT, i++){
    if pattern[i]
      (*action[i]) (int len, char** cfields, char*
cfield_len)
  }
```

carl_source.llvm

```
int NPAT = 2;
char RS = '\n';
char FS = ' ';
char** patterns;
void (**actions)(const int, char**, int*);
```