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Write a Lex program for:

Given an input C-program (`argv[1]`), remove all comments, and output a program (`argv[2]`) without comments.

You have to handle all FIVE types of comments:

(1)

// Single line comment

(2)

```
/* Multi line
   comment */
```

(3)

/\* Nested-1:

```
// Single line comment within a
Multi line comment
*/
```

(4)

/\* Nested-2:

```
/* Multi line
   comment within */
another Multi line comment
*/
```

(5)

```
// Nested-3: /* Multi line comment with a single line comment
              flowing to next line */
```

Step-1: Figure out the behavior first. (1), (2) are straight forward.

You need to discover how (3)-(5) behave. It may(?) happen that some lines are not deleted!

Step-2: Give the output file which removes the comments according to