

Output:

Using the “-l” parameter -

“input.txt” does not include any errors:

```
au239653@eustis: ~  
au239653@eustis:~$ gcc -o test compilerDriver.c  
au239653@eustis:~$ ./test -l  
28 2 beginningX 9 3 3 18 29 2 facRes 17 2 facParam 18 30 2 Factorial  
10 2 facParam 4 3 1 24 21 2 facParam 20 3 0 18 22 18 2 facRes 20  
Your code was successfully converted! No errors to report.  
au239653@eustis:~$
```

“input.txt” includes an error:

```
au239653@eustis: ~  
au239653@eustis:~$ gcc -o test compilerDriver.c  
au239653@eustis:~$ ./test -l  
  
Error: Relational operator expected.  
  
Error: An expression cannot begin with this symbol.  
  
Error: then expected.  
  
Error: Incorrect symbol after procedure declaration.  
  
Errors were encountered, program terminated!  
au239653@eustis:~$
```

Using the “-a” parameter -

“input.txt” does not include any errors:

au239653@eustis: ~

```
au239653@eustis:~$ gcc -o test compilerDriver.c
```

```
au239653@eustis:~$ ./test -a
```

```
7 0 41
```

```
7 0 2
```

```
6 0 5
```

```
3 1 5
```

```
1 0 0
```

```
2 0 12
```

```
8 0 38
```

```
3 1 5
```

```
4 0 4
```

```
3 1 5
```

```
1 0 2
```

```
2 0 4
```

```
1 0 2
```

```
2 0 5
```

```
1 0 1
```

```
1 0 1
```

```
2 0 4
```

```
2 0 3
```

```
4 1 5
```

```
5 1 1
```

```
3 0 4
```

```
3 1 5
```

```
1 0 1
```

```
2 0 2
```

```
2 0 9
```

```
8 0 29
```

```
1 0 0
```

```
4 1 5
```

```
7 0 29
```

```
3 1 4
```

```
3 1 5
```

```
1 0 1
```

```
2 0 2
```

```
2 0 4
```

```
4 1 4
```

```
3 0 4
```

```
4 1 5
```

```
7 0 40
```

```
1 0 1
```

```
4 1 4
```

```
2 0 0
```

```
6 0 6
```

```
1 0 3
```

```
4 0 5
```

```
5 0 1
```

```
11 0 3
```

Your code was successfully converted! No errors to report.

```
au239653@eustis:~$
```

“input.txt” includes an error:

```
au239653@eustis: ~  
au239653@eustis:~$ gcc -o test compilerDriver.c  
au239653@eustis:~$ ./test -a  
  
Error: end expected.  
  
Error: end expected.  
  
Error: Incorrect symbol after procedure declaration.  
  
Error: Period expected.  
  
Errors were encountered, program terminated!  
au239653@eustis:~$
```

More Errors –

```
au239653@eustis: ~  
au239653@eustis:~$ gcc -o test compilerDriver.c  
au239653@eustis:~$ ./test -a  
  
Error: Assignment operator expected.  
  
Error: call must be followed by an identifier.  
  
Error: Procedure not declared.  
  
Error: end expected.  
  
Error: Period expected.  
  
Errors were encountered, program terminated!  
au239653@eustis:~$
```

```
au239653@eustis: ~  
au239653@eustis:~$ gcc -o test compilerDriver.c  
au239653@eustis:~$ ./test -a  
  
Error: read must be followed by an identifier.  
  
Error: Undeclared identifier.  
  
Error: Assignment to constant or procedure is not allowed.  
  
Error: end expected.  
  
Error: Period expected.  
  
Errors were encountered, program terminated!  
au239653@eustis:~$
```

List of included errors –

- 1) Relational operator expected
- 2) An expression cannot begin with this symbol
- 3) Then expected
- 4) Incorrect symbol after procedure declaration
- 5) End expected
- 6) Period expected
- 7) Assignment operator expected
- 8) Call must be followed by an identifier
- 9) Procedure not declared
- 10) Read must be followed by an identifier
- 11) Undeclared identifier
- 12) Assignment to constant or procedure is not allowed