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The yyerrorok function

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When **yyvsparse()** discovers ungrammatical input, it calls **yyerror()**. It also sets a flag saying that it is now in an *error state*. **yyvsparse()** stays in this error state until it sees three consecutive tokens that make sense (that is, are not part of the error).

It is possible for **yyvsparse()** to leave the error state as soon as it finds one or two tokens that make sense; however, experience has shown that this is not enough to be sure that the error has really passed; one or two tokens being correct may just be a coincidence. If **yyvsparse()** leaves its error state quickly and then finds more erroneous input, it raises another error, calls **yyerror()** again to issue a new error message, and so on. In other words, it behaves as if it had found a brand new error, even though it is likely just a continuation of the old error. Waiting for three good tokens prevents a lot of error messages arising from a single error.

There are, however, times when you want **yyvsparse()** to leave the error state before it finds the three good tokens. To do this, invoke the macro **yyerrorok**, as in:

```
yyerrorok;
```

In effect, **yyerrorok** says, “The old error is finished. If something else goes wrong, it is to be regarded as a new error.”

This should help you understand the rule:

```
program : program error '\n' { yyerrorok; }
```

in the desk calculator program. Once **yyvsparse()** has found the newline that ends an erroneous input line, you want to leave the error state. Any errors on the line should be regarded as *closed*. If the next line also contains errors, you want to see a new error message produced.

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