## Implementation of Transition Diagram

```
Token nexttoken() {
while (1) {
  switch (state) {
  case 0:
                     c = nextchar();
                     if (c is white space) state = 0;
                     else if (c == '<') state = 1;
                     else if (c == '=') state = 5;
  case 9:
                     c = nextchar();
                     if (isletter(c)) state = 10; else state =fail();
                     break;
                     c = nextchar();
  case 10:
                  if (isletter(c) \parallel isdigit(c)) state = 10; else state 11
                     retract(1); insert(id);
  case 11:
                     return;
```