

exercise

inline programs

1. write a Cobra inline program that removes any occurrence of the token sequence “else ;” (an else keyword followed by a semi-colon)
2. write a Cobra inline program that reports the total and the average number of gotos in the source files

1. one possible answer:

```
%{  
    if (.txt == “else”)  
    {  
        . = .nxt;  
        if (.txt == “;”)  
        {  
            q = .nxt;  
            . = .prv;    # back to ‘else’  
            . = .prv;    # to stmt before ‘else’  
            .nxt = q;    # bypass ‘else and ;’  
            q.prv = .;  # correct back-link  
        }  
    }  
%}
```

2. one possible answer:

```
%{    # collect data  
    if (.txt == “goto”) { Ngotos[.fnm]++; }  
%}  
%{    # compute result  
    total = 0; cnt = 0;  
    for (i in Ngotos) {  
        cnt++;  
        total = total + Ngotos[i.txt]; # don’t forget the .txt  
    }  
    print “total: “ total “, average: “ total/cnt “\n”;  
    Stop;  
%}
```