#include <stdio.h>

#define TH(i) (i)/10%10 == 1 ? "th" :
            (i)%10    == 1 ? "st" :
            (i)%10    == 2 ? "nd" :
            (i)%10    == 3 ? "rd" : "th"

void f0(void);
void f1(void);
void f2(void);
void f3(int *counter3);

int counter1 = 0; /* global counter */

int counter3 = 0; /* local counter, passed by ref */

int i;
for (i = 1; i < 205; i++) {
    f0(); f1(); f2(); f3(&counter3);
}

void f0(void)
{
    int counter0 = 0; /* auto local counter */
    /* DOESN'T WORK! */
    counter0++;
    (void)fprintf(stdout, "%3d%s time f0 called
", counter0, TH(counter0));
}

void f1(void)
{
    counter1++; /* global counter */
    (void)fprintf(stdout, "%3d%s time f1 called
", counter1, TH(counter1));
}

void f2(void)
{
    static int counter2 = 0; /* static local counter */
    counter2++;
    (void)fprintf(stdout, "%3d%s time f2 called
", counter2, TH(counter2));
}

void f3(int *counter3)
{
    (*counter3)++; /* global counter */
    (void)fprintf(stdout, "%3d%s time f3 called
", *counter3, TH(*counter3));
}