Reflex

Mississippis? Scooby-doobie-doos? One-Thousands? How do you count seconds when you don't have a stopwatch around?

In this program you are challenged to count a number of seconds as accurately as possible. If you are within 1 tenth of a second you win.

If you're not sure how the clock function in C works, here a good example for you.

Reflex is written by Joe Larson.

```
reflex.c listing begins:
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
#include <math.h>
#include <ctype.h>
#define MAX 9
#define WIN 0.1
void playgame (void) {
  char input;
  int goal;
  clock_t start, end;
  double elapsed, range;
  goal = rand () % MAX + 1;
  printf ("\nYour goal this time is %d seconds exactly\n"
  "Press ENTER when ready to start the timer...\n", goal);
  getchar ();
  start = clock ();
  printf ("Press ENTER to stop the timer\n");
  getchar ();
  end = clock ();
  elapsed = (double)(end - start) / CLOCKS_PER_SEC;
  printf ("%.2f seconds.\n", elapsed);
  range = (elapsed > goal) ? elapsed - goal : goal - elapsed;
  if (range == 0)
    printf ("UNBELIEVABLE! Are you sure you're not a computer?\n");
  else if (range <= WIN)
    printf ("Close enough. You get a win for that one!\n");
  else printf ("Oh, %.2f away. Not close enough.\n", range);
int playagain (void) {
  char input;
  printf ("\nThat was fun. Would you like to play again? (y\\n) ");
  do input = getchar(); while (!isalpha(input)); getchar();
  if (input == 'y' || input == 'Y') return (1);
  else return(0);
}
int main (void) {
  puts ("Reflex\n----\n\n"
  "How's your reflexes? In this game see how accurately you can tell how\n"
  "much time has elapsed. The computer will give you a number of seconds.∖n"
  "When you are ready press ENTER to start the timer, then press ENTER\n"
  "again when you think the given amount of time has elapsed.\n");
  srand (time(NULL));
  do playgame (); while (playagain ());
  exit (0);
```