H10: (Type Expressions) Total Points: 50 (printable PDF)

Accepted: on paper, IN LECTURE on 11/16

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Name: (2 pts)______ Umail address (2 pts) _____

Section (2 pts) Circle one: Thu 8am Fri 10am Fri 11am Fri noon

Name of your pair programming partner(s), if you work together:

The lectures of Monday 11/09 and Friday 11/13 covered "type expressions" in C.

These are an important thing to understand, because they are the language in which messages from the compiler are written—you may be told, for example that "argument char doesn't match parameter char *", and you need to understand what that means.

Also, a mismatch in types is a common error in C/C++ programming, for example:

- mismatch of argument and parameter
- mismatch of right hand side and left hand side of an assignment statement

Together with this homework assignment, there is a program (on a separate handout).

• If you didn't get one, you can find the program at: http://www.cs.ucsb.edu/~pconrad/cs16/09F/homework/H10/files/types.c

Assuming each of the expressions below appeared in this program, indicate the type they would have.

The first few are done for you as an example.

Hints--for full credit:

- don't write pointer to character; instead, write char *
- don't write address of int; instead, write int *

(44 pts) (2 points each for the ones not already filled in)

Expression	Туре	Expression	Туре
X	int	end	
&x	int *	end.hrs	
*x	error	end->min	
c.center	struct Point	&(end->min)	
&(c.center.x)	double *	pt	
*val	double	argc	
c.x	error	&argc	
&end	struct Time **	*argc	
(*cir).x		argv[0]	
(*cir).radius		argv[0][0]	
cir->center		#	
cir->center.y		&y	
cir->center->y		&val	
start		*num	
*end		*cir	