QUIZ!

Use a full sheet of $8\frac{1}{2}\times11^{"}$ paper. (Half sheet? Half credit!)

Put <u>only your last name</u> in the <u>far upper left hand corner</u> of the sheet, where a staple would hit it. It's OK to write BIG, just start in the corner!



Keep answers short! Avoid full sentences. Feel free to abbreviate.

Four questions; 3 minutes; 4 points $+ \frac{1}{2}$ point E.C.

Quiz 11, November 30, 2015 Time: 3:00; 4 points

- qsort(3) can be used to sort values of any type, even instances of structures. How does qsort achieve such great flexibility?
- 2. Here's a prototype: int f(char *); Write a declaration for a function pointer fp such that fp = f is valid.
- 3. Write a declaration for an **int** array named **vals** that has three rows and two columns.
- 4. Given **vals** from #3, what is **sizeof(vals[0])**?

EC ¹/₂ point:

Is sizeof(vals[0]) == sizeof(vals[0,0])? Why
or why not?

Solutions

- qsort (3) can be used to sort values of any type, even instances of structures. How does qsort achieve such great flexibility? The caller supplies a pointer to a function that does comparisons. (qsort knows all about sorting but nothing about comparison.)
- 2. Here's a prototype: int f(char *); Write a declaration for a function pointer fp such that fp = f is valid. int (*fp)(char *);
- 3. Write a declaration for an *int* array named **vals** that has three rows and two columns. *int* **vals**[3][2];
- 4. Given vals from #3, what is sizeof(vals[0])? 8 (two ints)

EC ¹/₂ point:

Is sizeof (vals[0]) == sizeof (vals[0,0])? Why or why not? They are equal. 0,0 is a likely misuse of the comma operator, and produces the value zero.