

QUIZ!

Use a full sheet of 8½x11" paper. (Half sheet? Half credit!)

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

*Mitchell*

**AVOID A ½-POINT DEDUCTION!**

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

One problem; 3 minutes; 3 points. Plus 1 point extra credit.

# Quiz 9, November 13, 2015

Time: 3:00

1. Given

```
struct rect {  
    int width;  
    int height;  
};
```

write a function

```
struct rect *make_rect(int w, int h)
```

that allocates memory for a **struct rect**, initializes its members with **w** and **h**, and returns a pointer to the allocated memory.

Example of usage:

```
struct rect *rp = make_rect(5, 7);
```

EC 1 point: Given **rp**, write code to compute the area of the rectangle and assign it to an **int** named **area**.

## *Solutions*

```
struct rect *make_rect(int w, int h)
{
    struct rect *r = malloc(sizeof(struct rect));

    r->width = w;
    r->height = h;
    return r;
}
```

EC:

```
int area = rp->width * rp->height;
```