The following function sorts an array of integers in ascending order using the selection sort algorithm:

```
void selectionsort(int arr[], int size)
{
    for (int i = 0; i < size - 1; i++)
    {
        int min = i;
        for (int j = i + 1; j < size; j++)
        {
            if (arr[j] < arr[min])
            {
                min = j;
            }
        }
        int tmp = arr[i];
        arr[i] = arr[min];
        arr[min] = tmp;
    }
}
```

For this exam, I would like you to complete the following tasks:

1. Create a structure called `rectangle` that defines a new type consisting of the following fields:

    a. name (`string`)

    b. width (`int`)

    c. height (`int`)

2. Edit the `selectionsort` function given above so that it sorts an array of **pointers to rectangles** in descending order by width.

3. Create a main method that does the following:

    a. creates five rectangles

    b. populates an array of **pointers to rectangles** using the addresses of the five rectangles you created

    c. sorts the array of rectangle pointers in descending order by width using your new `selectionsort` function

    d. prints the rectangles in the array to the console to show that your new sorting method worked

When you are done, please post your source file to the canvas dropbox.