

**ENGINEERING H192
PRELIMINARY ASSIGNMENT 13**

The two tables below represent the one-dimensional floating point matrix **fm**[5] and the two-dimensional integer matrix **im**[3][3], respectively. The shaded portions of the table represent the matrix. The unshaded cells indicated the row and, where appropriate, column indices.

Provide the C/C++ statements as requested below.

NOTE: Only one C/C++ statement is needed for each request.

```
float fm[5] = {1.1, 2.2, 3.3, 4.4, 5.5};
```

0	1	2	3	4
1.1	2.2	3.3	4.4	5.5

```
int im[3][3] = {{10, 20, 30}, {40, 50, 60}, {70, 80, 90}};
```

	0	1	2
0	10	20	30
1	40	50	60
2	70	80	90

1. Declare a pointer, **ptrf**, that could be used with the **fm** matrix?
2. Declare a pointer, **ptri**, that could be used with the **im** matrix?
3. Make **ptrf** point to the value 1.1.
4. Make **ptri** point to the value 60.
5. Use **ptrf** to change the value 1.1 to 6.6
6. Use **ptri** to change the value 60 to 100
7. Right now **ptrf** points at **fm**[0], knowing this, write a single statement using **ptrf** that will change the 4.4 stored in **fm**[3] to 7.7.
8. Right now **ptri** points at **im**[1][2], knowing this, write a single statement using **ptri** that will change the 30 stored in **im**[0][2] to 110.

Name _____ Instr. _____ Room _____ Seat _____ Hour _____