

- 8) Write the assignment statement that is missing in the following program fragment that is intended to assign 10 to each of the components of the given two-dimensional array.

```
int[ ][ ] table= new int[10][20];
int i, j ;
for (i = 0; i < 10; i++)
    for (j = 0; j < 20; j++)
        // Assignment statement is missing here
```

8) _____

- 9) What are the contents of the `table` array after execution of the program fragment below?
(Note: You can write the answer in table (matrix) form.)

```
int[ ][ ] table = new int[3][3];
int i, j ;
for (i = 0; i < 3; i++)
    for (j = 0; j < 3; j++)
        table[i][j] = i + 3 * j ;
```

ANSWER:

I. Answer the following (1 pt each unless stated otherwise)

1) Given the declaration: **char** [] [] example1 = **new char**[20][4];
 how many **char** components does example1 have? 1) _____

2) Given the declaration: **float** [] [] [] example2 = **new float**[5][2][7];
 how many **float** components does example2 have? 2) _____

3) If example3 is a two-dimensional array, then the component example3[2][3]
 refers to the element in what *math* row and what column respectively? 3) _____

4) Which character is stored in example4[2][1] of the declaration: 4) _____
char [] [] example4 =
 {
 { 'a', 'b', 'c' },
 { 'd', 'e', 'f' },
 { 'g', 'h', 'i' }
 };

5) Write the declaration of a two-dimensional array named twoDim that has 8 rows and 5
 columns and whose components are of type **double**:
 5) _____

6) Given that example6 has been declared as a two-dimensional array ,
 write a statement to store the value 14.5 into the *math* tenth row and third column of the array:
 6) _____

7) Complete the **for** line and write the assignment statement that computes the sum of the
 elements in math row 2 of example7 for the following code fragment. (2 pts)

```
int x ;
double [ ] [ ] example7 = new double[5][50] ;
double sum = 0.0;

for (x = _____ ; x _____ ; x++)
```

Over