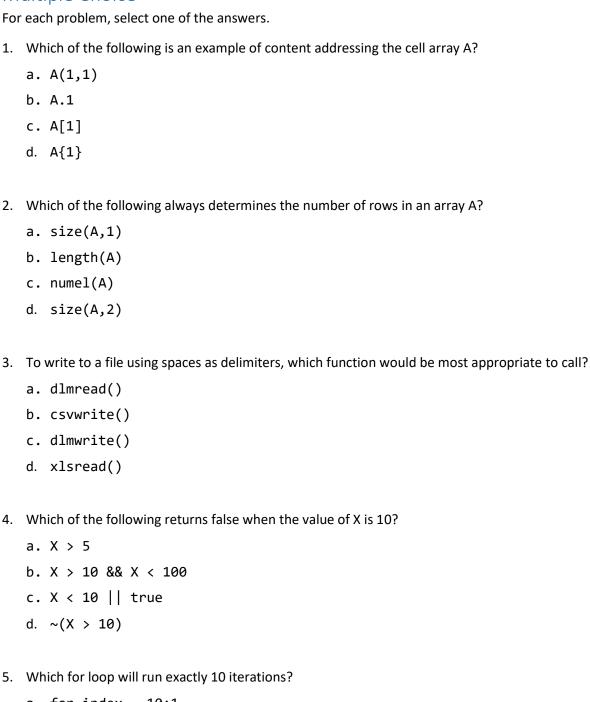
## ITP 168 Midterm Practice Problems

## Multiple Choice



```
a. for index = 10:1
b. for index = 0:10
c. for index = randi([32,54], 32, 10)
```

- d. for index = 10:-2:1
- 6. Which of the following is NOT a valid case for a switch statement?
  - a. case 2
  - b. else
  - c. case {1, 3}
  - d. otherwise
- 7. What is the first line of comments after the function definition line?
  - a. Help line
  - b. Header file
  - c. Function parameter check
  - d. None of the above
- 8. Which variable refers to the number of input arguments to a function when the function is called?
  - a. inArgs
  - b. nargout
  - c. args\_in
  - d. nargin

## **Short Answer**

Answer the following questions in the space provided.

- 1. Using only a single command, delete the second row of cells in the cell array B.
- 2. What does the following line of code produce in the command window:

```
fprintf('The value is: %+010.2f\n', 350.2033)
```

3. Using only a single command, open the file "results.txt" and make it writeable, deleting any previous contents.

4.	Create an empty student structure with fields for name, email, and student ID. Replicate it into a 1x5 structure array. Do this using only two commands.
5.	Write the code to swap the values stored in A and B.
Lo	ong Answer
	swer the following questions in the space provided. If the question asks for an example you are uired to give one. If it does not, you may use one to help make your point.
1.	Compare and contrast a for loop and a while loop. Describe how they are the same and how they are different.
2.	What is the difference between a homogenous collection and a non-homogenous collection? Give an example of each.
	oding
im	ite your answers to the questions in the space provided. Points will be awarded for correct plementation of concepts. If your code is not legible, it will not receive points. Do not write comments a header. You will only receive points for code. You may not use break, continue, or return.
1.	Write a script file that asks the user to provide two positive, integer, scalar values. The user needs to enter the two values separately. If they do not provide a positive, integer, scalar value, then ask again. Do this by using only one while loop and one for loop. Each positive, integer, scalar value

should be stored in its own separate variable.

## 2. Assume the following structure exists:

Write a script file that asks the user to name a field to see if it exists in the structure. If the field does exist in the structure, use the disp() function and dynamic field names to display it's value. Do not use fprintf() because the values in the fields are complex. You must use dynamic field names to get full credit.