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Lecture Section: _____ TA ____

This is an example of a block

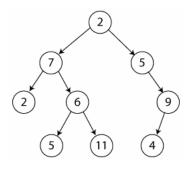


Figure 1: Example Figure

- 1. This is a problem 1
- (a) ★ correct answer 1
- (b) answer 2
- (c) fixed answer 3
- (d) ★ correct fixed answer 4
- (e) answer 5
- (f) * fixed correct answer 6

The following problems relate to logical situations.

- 2. Which expression tests whether variable x is between (but not the same as) the values 5 and 10.
- (a) 5 < x < 10
- (b) 5 <= x <= 10
- (c) 5 < x & x > 10
- $(d) \star x < 10 \& 5 < x$
- (e) none of these
- 3. Which of the following is a MATLAB expression for testing "x is outside the range from 3 to 5" (the range includes 3 and 5)?
- (a) 3 > x & x > 5

- (b) 3 > x | x < 5
- (c) * 3 > x | x > 5
- (d) cannot be expressed in MATLAB
- (e) none of the above
- 4. In MATLAB the value 1 is true, and true is:
- (a) there are no boolean types in MATLAB
- (b) \star any value that isn't zero
- (c) 1
- (d) 0
- (e) none of the above

The following problems relate to matrix operations done in matlab.

- 5. Suppose you have a matrix $x = \begin{pmatrix} 1 & 2 & 3 & 4 \\ 3 & 4 & 5 & 6 \end{pmatrix}$. Which of the following will evaluate to $\begin{pmatrix} 3 \\ 5 \end{pmatrix}$?
- (a) x(3)
- (b) x(3,:)
- (c) x[:,3]
- (d) $\star x(:,3)$
- (e) none of these
- 6. Which of the following will extract $[5\ 6\ 7]$ from the matrix m shown? $\Rightarrow m = [3\ 4\ 5\ 6\ 7\ 8]$;
- (a) \star m(3:5)
- (b) m(5:end-1)
- (c) m(end-1:5)
- (d) m[5, 7]
- (e) none of these
- 7. Suppose you have a matrix x=1 2 3 4 5 6 . Which of the following will evaluate to 1 2 3 4 5 ?
- (a) x(1,end)
- (b) x(end-1)
- (c) \star x(1,end-1)
- (d) x(1,1-end)
- (e) none of these
- 8. Suppose you have a matrix $x = \begin{pmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{pmatrix}$. Which of the following will evaluate to 6? '
- (a) x(3,2)
- (b) x(1,2)
- (c) x[2,2]
- (d) x[2,3]

- (e) ★ none of these
- 9. Consider the function f:

```
function answer = f(a)
answer = a+2;
end
```

What will be in x after the command:

```
>> x = f(4);
```

- (a) \star 6
- (b) 4
- (c) f(4)
- (d) error
- (e) none of these
- 10. Consider the function f:

```
function [] = f(x)
output = 7;
end
```

What will be in x after the command:

```
>> x = f(3);
```

- (a) 7
- (b) f(7)
- (c) ans
- (d) \star error
- (e) none of these

Did you remember to write your name on the first page? Did you attempt to answer every question? Have a good holiday.