Developed: 2010

Name _____ Login name ____

Lecture Section: _____

Lab Section: _____

TA _____

This is an example of a block

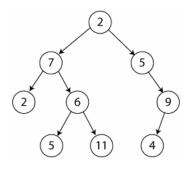


Figure 1: Example Figure

- 1. This is a problem that does not have a correct answer used for system testing 1
- (a) answer 1
- (b) answer 2
- (c) fixed answer 3
- (d) fixed answer 4
- (e) answer 5
- (f) fixed 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) 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

| (c) (d) | $3 > x \mid x < 5$ $3 > x \mid x > 5$ cannot be expressed in MATLAB none of the above |
|-------------------------|---|
| 4. | In MATLAB the value 1 is true, and true is: |
| ` ′ | |
| (e) | none of the above |
| The foll | lowing 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 $\begin{pmatrix} 3 \\ 5 \end{pmatrix}$? |
| (c) : (d) : | x(3) $x(3,:)$ $x[:,3]$ $x(:,3)$ none of these |
| | Which of the following will extract [5 6 7] from the matrix m shown? = [3 4 5 6 7 8]; |
| (b) : (c) : (d) : | m(3:5) m(5:end-1) m(end-1:5) m[5, 7] none of these |
| 7. 1 2 | Suppose you have a matrix $x=1$ 2 3 4 5 6 . Which of the following will evaluate to 2 3 4 5 ? |
| | x(1,end) x(end-1) |

(c) x(1,end-1)(d) x(1,1-end)(e) none of these

- (b) x(1,2)
- (c) x[2,2]
- (d) x[2,3]

Suppose you have a matrix $x=\begin{array}{ccc} 1 & 2 & 3 \\ 4 & 5 & 6 \end{array}$. Which of the following will evaluate to 6? '

- (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) 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) 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.