Cs005 Final Study Guide

For the first eight questions, assume the following variables have been initialized in the matlab workspace:

|  |
| --- |
| >> BAge = 12;  >> GAge =7;  >> BName = ‘Joe’  >> GName = ‘joanne’ |

1. What does the expression: **BAge + GAge \* 2** evaluate to?

|  |  |  |
| --- | --- | --- |
| A) 38 | B) 26 | C) 2 |
| D) Inf | E) NaN |  |

1. What does the expression: **BAge + GAge / GAge** evaluate to?

|  |  |  |
| --- | --- | --- |
| A) 13 | B) NaN | C) Inf |
| D) 2.71 | E) 0 |  |

1. What does the expression: **BAge / (GAge - GAge)** evaluate to?

|  |  |  |
| --- | --- | --- |
| A) “Error” | B) 1 | C) Inf |
| D) 0 | E) NaN |  |

1. What does the expression: **(BAge - BAge) / (GAge - GAge)** evaluate to?

|  |  |  |
| --- | --- | --- |
| A) 0 | B) 1 | C) Inf |
| D) -Inf | E) NaN |  |

1. What does the expression: **BName(2) == GName(2)** evaluate to?

|  |  |  |
| --- | --- | --- |
| A) 1 | B) 0 | C) ‘o’ |
| D) Inf | E) Error: Expression or statement is incorrect--possibly unbalanced |  |

1. What does the expressio: **BName(1) == GName(1)** evaluate to?

|  |  |  |
| --- | --- | --- |
| A) 1 | B) 0 | C) ‘J’ |
| D) ‘j’ | E) NaN |  |

1. What does the expression: **sort(GName)** evaluate to?

|  |  |  |
| --- | --- | --- |
| A) aemGN | B) GNaem | C) **GName** |
| D) Error: Expression or statement is incorrect--possibly unbalanced | E) aejnno |  |

1. What does the expression: **upper(BName)** evaluate to?

|  |  |  |
| --- | --- | --- |
| A) BNAME | B) joe | C) JOE |
| D) Error: Expression or statement is incorrect--possibly unbalanced | E) jOE |  |

(Expect two new questions on legal variable/function names)

1. Which variable name below is legal?

|  |  |  |
| --- | --- | --- |
| A) 2legit2quit | B) HammerTime | C) M.C.Hammer |
| D) U Can't Touch This | E) U Cant Touch This |  |

1. Which variable name below is legal?

|  |  |  |
| --- | --- | --- |
| A) Vanilla-Ice | B) @ice | C) @ICE |
| D) Ice | E) 2Iced |  |

(Expect 5 to 10 question that ask you to trace code with different arguments)

Use the function below to answer the next set of questions.

|  |
| --- |
|  |

What value is assigned to **ans** in the code below. In some cases the answer may be “Error: Unexpected MATLAB expression.”

1. **>> ans = mist(10,10)**

|  |  |  |
| --- | --- | --- |
| A) 10 | B) 20 | C) 100 |
| D) “Error: Unexpected.. | E) NaN |  |

1. **>> ans = mist(50,10)**

|  |  |  |
| --- | --- | --- |
| A) 10 | B) 20 | C) 50 |
| D) 60 | E) NaN |  |

1. **>> ans = mist(10,50)**

|  |  |  |
| --- | --- | --- |
| A) 10 | B) 20 | C) 50 |
| D) 60 | E) “fish taco” |  |

1. **>> ans = mist(13,50)**

|  |  |  |
| --- | --- | --- |
| A) 13 | B) 50 | C) 63 |
| D) “Error: Unexpected.. | E) “taco fish” |  |

1. **>> ans = mist(floor(12.5),99.5)**

|  |  |  |
| --- | --- | --- |
| A) 12.5 | B) 12 | C) 13 |
| D) 99.5 | E) 99 |  |

Expect a question that tests if you understand how to swap to numbers.

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Look at this code:

>> X = [];

>> X = [X 7];

>> X = [X 7];

What is the value of X now? Expect some questions that test your understanding of this.

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Look at this code:

>> Y = 3;

>> Y = [2 Y];

>> Y = [Y 9];

What is the value of Y now? Expect some questions that test your understanding of this.

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Assume that Len holds the length of a string, A.

Look at this loop:

for i = 1 : Len

disp( A(i) );

end

and this loop

for i = 1 : Len

disp( A(Len + 1- i) );

end

What does each string do, say when the string A is ‘fink’

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What does this code assign to X?

X = [];

What about this?

X = [1 9];

What about this?

X = [1 : 9];

What about this?

X = [ [1 9] [1 9] ];

What about this?

X = [ [1 2] [ 2 1] [ 1 6] ];

What about this?

X = ['radar' , 'radar'];

What about this?

X = ['radar' , ' ' ,'radar'];

What about this?

X = ['radar' , num2str(17)];