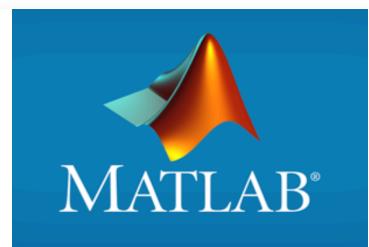




SUMS MATLAB Workshop

4 plays • 19 players

A public kahoot



Questions (26)

1 - Quiz

What does MATLAB stand for?



- Mathematica Laboratory ✗
- Matrix Laboratory ✓
- Mathematical Laboratorium ✗
- Math Labyrinthodontia ✗

2 - Quiz

What is the origin of the MathWorks logo?



- Surface plot of a temperature gradient ✗
- Surface plot of a variant of the first eigenfunction ✓
- Founder of MathWorks' PhD Thesis ✗
- Exponential probability distribution in 2D ✗

3 - Quiz

Why is MATLAB indexing 1-based?

1

- Because of FORTRAN ✓
- Because of binary ✗
- Because of base 10 ✗
- Because of Julia ✗

4 - Quiz

Which year was MathWorks founded?



- 1969 ✗
- 1978 ✗
- 1987 ✗
- 1984 ✓

5 - Quiz

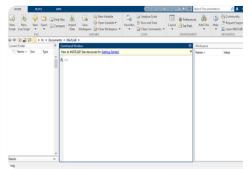
What does the command "life" do in MATLAB?



- Show the image of a plant ✗
- Output population statistics ✗
- Make a fractal ✗
- Simulate Conway's Game of Life ✓

6 - Quiz

What function that mentions a "smart and tall engineer" is in MATLAB?



- hint ✗
- read ✗
- why ✓
- help ✗

7 - Quiz

What image does the command "spy" show in MATLAB?



- A sphere ✗
- A dog ✓
- A cat ✗
- The MathWorks logo ✗

8 - Quiz

What icon is displayed when your code has errors in MATLAB?



- Red stop with exclamation ✓
- Red cross ✗
- Red light bulb ✗
- Red 'ERROR' in a box ✗

9 - Quiz

What is the online version of MATLAB (that UCSD students can use) called?



- MATLAB Cloud ✗
- MATLAB Connect ✗
- MATLAB Online ✓
- MATLAB Mobile ✗

10 - Quiz

What does "help help" do in MATLAB?



- Outputs "You can do it!" ✗
- Opens a MATLAB tutorial ✗
- Fixes all your errors ✗
- Output a description of the help command ✓

11 - Quiz

What does the "abs" function do in MATLAB?



- Returns length of vector ✗
- Returns positive magnitude of a number ✓
- Returns number of digits ✗
- Returns square of number ✗

12 - Quiz

What does the semicolon (;) do in MATLAB?



- Nothing X
- Marks end of line X
- Suppresses output ✓
- Marks end of command X

13 - Quiz

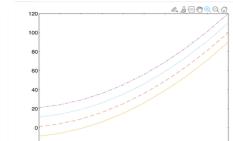
What is the output of A = [1 2 3]; B = [9 8 7]; c = A.*B?

```
Command Window
>> A = [1 2 3]; B = [9 8 7]; c = A.*B;
c = 9 16 21
```

- Error X
- c = 7 16 27 X
- c = 9 16 21 ✓
- c = 1^9 2^8 3^7 X

14 - Quiz

Which of the following is NOT a valid MATLAB line style?



- "___" X
- "-.:;" ✓
- ":" X
- "-." X

15 - Quiz

Let $A = [1 \ 2 \ 3; \ 4 \ 5 \ 6]$. What does $\text{size}(A)$ return?

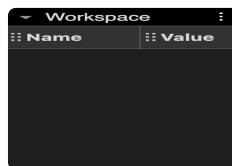
Command Window

```
>> size(A)
```

- 2, 3 ✓
- 6 ✗
- 3, 2 ✗
- 5 ✗

16 - Quiz

Which of the following clears MATLAB's variable memory?



- wipe ✗
- clc ✗
- reset ✗
- clear ✓

17 - Quiz

Let $V = [10 \ 11 \ 9]; [a, b] = \text{max}(V);$ What is b ?

```
>> V = [10 11 9]; [a, b] = max(V); a  
a =  
11
```

- $b = 2$ ✓
- $b = 1$ ✗
- $b = 11$ ✗
- $b = 10$ ✗

18 - Quiz

Let $A = [-1 \ 0 \ 100]$; What is the output of $A > 0$?

```
>> A = [-1 0 100]; A == 0  
ans =  
1x3 logical array  
 0 1 0
```

- X 2
- X False
- X 0 1 1
- ✓ 0 0 1

19 - Quiz

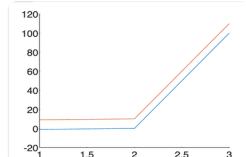
Let $x = [2 \ 3 \ 1]$; $x(x==2) = 3$; What does x look like now?

```
>> x = [2 3 1]; x(x<2) = 3; x  
x =  
2 3 3
```

- ✓ $x = [3 \ 3 \ 1]$
- X $x = [3 \ 1]$
- X $x = [2 \ 3 \ 1]$
- X Error

20 - Quiz

When plotting, what does “hold on” do?



- X Makes all previous plots on new plots
- ✓ Makes all following plots appear on current plot
- X Makes the plot unmovable
- X Makes each plot a separate plot window

21 - Quiz

Let $a = [1 \ 2 \ -1 \ -2]$; $b = [3; 1; -3; -1]$. What is the output of b^*a ?

```
>> a = [1 2 -1 -2]; b = [3; 1; -3; -1]; b^*a
ans =
    3     6    -3    -6
    1     2    -1    -2
   -3    -6     3     6
   -1    -2     1     2
```

-  Some 4x4 matrix ✓
-  10 ✗
-  Error ✗
-  [3 2 3 2] ✗

22 - Quiz

Which of the following commands makes a vector x of length n containing all zeros?

```
>> zeros(2,2)
ans =
    0     0
    0     0
```

-  $x = \text{zeros}(10)$ ✗
-  $x = \text{zeros}(10,1)$ ✓
-  $x = \text{zeros}(10,10)$ ✗
-  $x = \text{zeros}(1,10)$ ✗

23 - Quiz

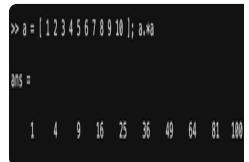
Which of the following is an appropriate MATLAB variable name?

```
>> zeros = 10
zeros =
10
```

-  $x\#$ ✗
-  $x@v$ ✗
-  x' ✗
-  max ✓

24 - Quiz

Let $a = [1 2 3 4 5 6 7 8 9 10]$. What is the last item of $a.*a.*a - a.*a$?



- A 1000 ✗
- B 999 ✗
- C 900 ✓
- D 990 ✗

25 - Quiz

Let $a = 1; b = 2$. Then run $a,b = b,a$. What are the values of a and b ?

,

- A $a = 2, b = 2$ ✗
- B $a = 2, b = 1$ ✗
- C $a = 1, b = 1$ ✗
- D $a = 1, b = 2$ ✓

26 - Quiz

Have you signed in to this event at sums.ucsd.edu?

20 sec

- A Nay? ✓
- B Yay ✓
- C Yes ✓
- D Yet ✓

Resource credits ^