

1. How many “else if” statements are allowed in an “if/else if” structure. (1 points)
  - a. 1
  - b. 2
  - c. 5
  - d. 10
  - e. As many as you want
2. **True or False:** In a “switch” statement, once MATLAB locates and executes a matching “case” statement, it will continue to check for and execute other matching “case” statements until it reaches the end of the switch statement. (1 points)
3. Given a vector V that contains random numerical values between 0 and 100 (you do not have to create V), write MATLAB code to calculate the percentage of values in V greater than 50 and store it in an appropriately named variable. (4 points; **hint:** use the find and length functions)
4. Write a line of MATLAB code to display a menu that asks the user to select one of three food options: pizza, hot dog, or hamburger. Store the selection in a variable called “food.” (4 points)  
**Extra credit:** Write a switch statement that will display the choice to the command window, or an error message if the menu was closed without selection (+5 points; use the back if needed)
5. Write a MATLAB function called “PassFail” that: (10 points)
  - Has no output variable.
  - Accepts as input an integer representing a test score.
  - Displays a message indicating if the score passed or failed.
    - A score of 60 or more passes
    - A score less than 60 fails
  - Input validation: The program should display an error message if the score is less than 0.