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BA-Discussion #4, 2020-09-25
```

disp ('This is a prime number.')

end end

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+ please make more that you are in the correct discussion section
 + please runnute, show video, and fully participate!
 Announcements
  · always do the reading! Lecture videos are just supplemental
  · quiz #2 @ 4:40 pm EDT : 10 min to complete, 5 to repload
       -alternate quiz tomorrow morning for other time zones
       -0.5 pts deducted for every minute late
  · homework * I due Monday
  ·Exam *1 next Friday & 4:30 pm EDT (no EK100)
      - Start studying now!
  · Questions? Check to see if already answered on the Discussion Forum!
Review Quiz 1
Periew of Material
  · Selection Statements: if, if-else, moitch
  ous functions
  ·For loops + nested for loops
 How to accomplish the following:
                                        for i=5:-1:1
                                             for j=1:i
                                                   fprint(('*')
                                             fprintf('\n')
                                         end
 use a nested for loop!
 Write a function using a loop that tests if a number is prime or not. Then print if
 the value is prime or not.
 function prime Number (n)
 "Don't forget your block comment.
 tprime = 1;
 for i = n-1:-1:2
      if mod (n, i) == 0
         tprime = 0;
      end
  end
  if tprime == 0
    disp ('This is not a prime number!')
  else
```

```
Rewrite the following nested if-else as a switch statement
                              * assume that the functions $1(), $2(), $3(), $4() exist *
  if num <-2 11 num > 4
      41 (num)
 علاو
                                       switch num
                                           case {-2, -1}
f3(num)
      if num <= 2
          if num >= 0
               42(num)
                                           case 30,1,23
          else
                                              $2(num)
                                           case {3,4}
               f3(num)
          end
                                               f4 (num)
      else
                                            ofherwise
          44(num)
                                               fi (num)
      end
                                       end
 end
```

```
Wrik a script that will prompt the user for a character vector and print whether empty or not.

instring = input ('Enter a character vector: ', 's'); %c %d %f %s if isempty (instring)

fprintf('NH much of a character vector! 'n')

the formatters

to printf('Thanks!')

end
```

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isempty()

· isetter()

· iskuyward()

· iskuyward()

· ishuyward()
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