Example questions for exam (1)

Note: these examples are meant to show the type of questions for the exam. They do not represent the level of difficulty of the actual exam.

1. Choose the right answer (only one is correct).

The command \texttt{vec=[1, 2, 3; 4, 5, 6]} defines:

   a) a 1d vector with 6 elements  
   b) a 2d array with 2 rows and 3 columns  
   c) a 2d array with 3 rows and 2 columns  
   d) none of the above

2. Short answer.

What is the output from the following script:

\begin{verbatim}
x=2:2:4;
y=x.^2;
for i=1:2
    fprintf(‘%d, x= %d, y=%d
’, i, x(i), y(i));
end
\end{verbatim}

3. Complete the programs

The following function finds the second largest number in a set of measurements. Complete the missing part of the program.

\begin{verbatim}
function y=findsecond(x)
n=length(x);
max1=0;       % the largest number
max2=0;       % the second largest number
for i=1:n
    if x(i)>max1 & x(i)>max2
        % add your code here
    elseif x(i)>max2
        % add your code here
    end
end
y=max2;
end
\end{verbatim}