

EC1011: COMPUTING  
LAB 07: Domain Specific  
Programming Languages

NAME : K.J.M.U.G.S.E. JAYASINGHE  
REGISTRATION NO. : 2021/E/075  
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No.	Field	Data
1	Description	Input elements should be closed with "()". But it seems closed by "[]"
	Type	Error
	Actual line	<code>function y=matMeanDiff (A,B]</code>
	corrected	<code>function y=matMeanDiff (A,B)</code>

No.	Field	Data
2	Description	Unused or wrong line
	Type	Warning
	Actual line	<code>sumAllA=sum (A (: ) ) ;</code>
	corrected	Delete that line. It was unused

No.	Field	Data
3	Description	Assign variable without using semicolon of the end
	Type	Warning
	Actual line	<code>sumAllB=sum (B (: ) )</code>
	corrected	<code>sumAllB=sum (B (: ) ) ;</code>

No.	Field	Data
4	Description	NUMAL(x) is faster than PRODSIZE(X)
	Type	Warning
	Actual line	<code>diff=meanA-sumAllB/prod (size (B) ) ;</code>
	corrected	<code>diff=meanA-sumAllB/numel (B) ;</code>

No.	Field	Data
5	Description	Ask to find mean value
	Type	error
	Actual line	<code>sumAllB=sum (B (: ) ) ;</code>
	corrected	<code>meanB=mean (B (: ) ) ;</code>

No.	Field	Data
6	Description	Ask to find mean value and also average value
	Type	error
	Actual line	<code>y=mod (diff) ;</code>
	corrected	<code>y=abs (mean (diff) ) ;</code>

No.	Field	Data
7	Description	Ask to find mean value
	Type	error
	Actual line	<code>diff=meanA-meanAllB/numel (B) ;</code>
	corrected	<code>diff=meanA-meanAllB</code>

```
Editor - C:\Users\2021e075\Documents\MATLAB\matMeanDiff.m
matMeanDiff.m  Untitled2  +
1      %The purpose of this function is to input two matrices
2      %And find the,
3      %Absolute difference of the average of all elements
4      %Example:
5      % A=[2,4;4,2];
6      % B=[3,9,3;3,3,3;9,3,9];
7      % matMeanDiff(A,B)
8      % Expected answer output is 2
9      % Note the average of A and B is 3 and 5 respectively
10     function y=matMeanDiff(A,B)
11     -   meanA=mean(A(:));
12     -   meanAllB=mean(B(:));
13     -   diff=(meanA-meanAllB);
14     -   y=abs(mean(diff));
```

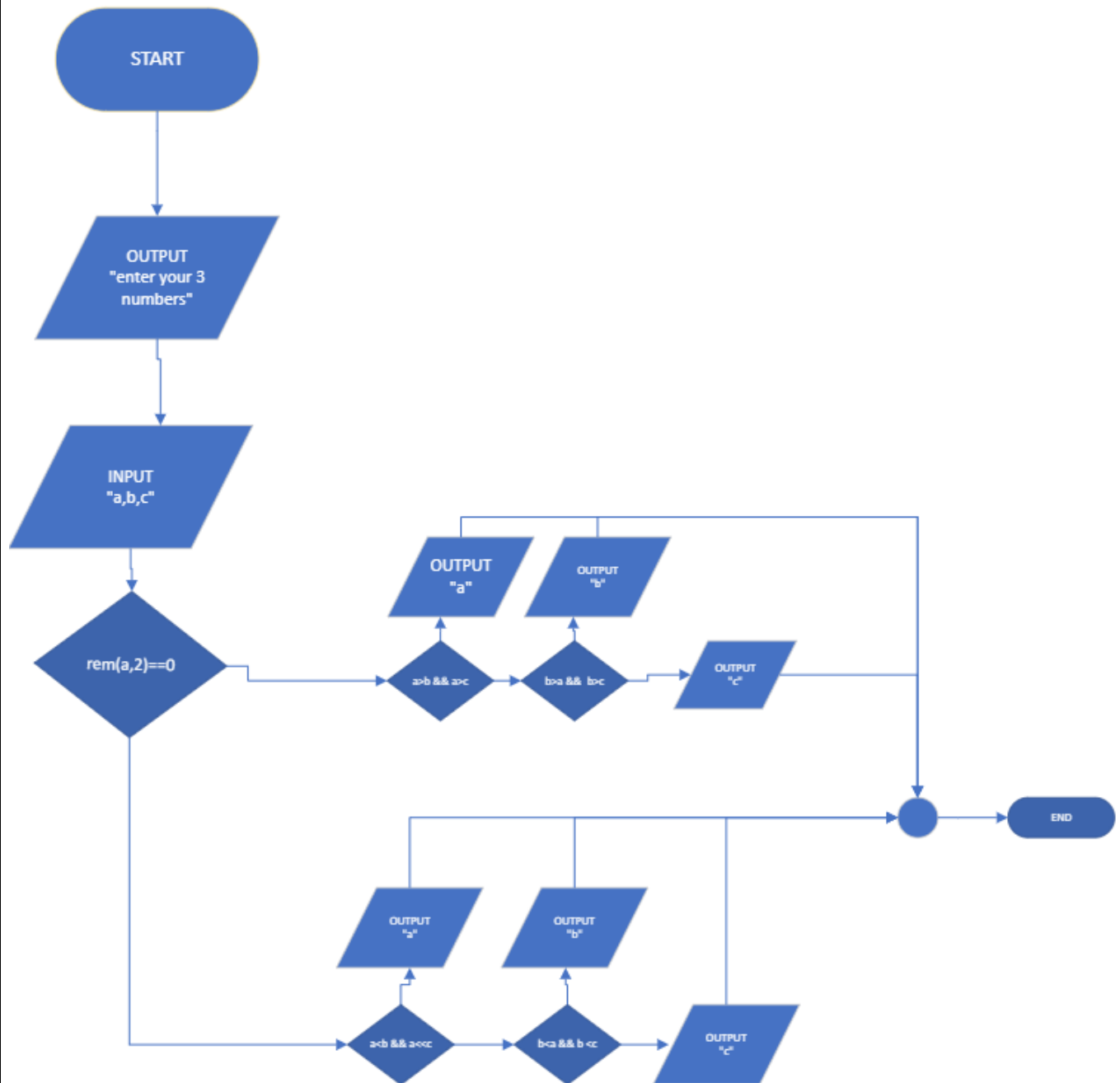
```
Command Window
New to MATLAB? See resources for Getting Started.
2021e075>>matMeanDiff([2,4;4,2],[3,9,3;3,3,3;9,3,9])

ans =

     2

fx 2021e075>>
```

2.



Editor - C:\Users\2021e075\Documents\MATLAB\min3.m

matMeanDiff.m min3.m +

```
1 function min3(a,b,c)
2 if rem(a,2)==0
3     if a>b && a>c
4         disp(a)
5     elseif b>a && b>c
6         disp(b)
7     else
8         disp(c)
9     end
10 else
11     if a<b && a<c
12         disp(a)
13     elseif b<a && b<c
14         disp(b)
15     else
16         disp(c)
17     end
18 end
19 end
```

Command Window

New to MATLAB? See resources for [Getting Started.](#)

```
2021e075>>min3(1,2,3)
1

2021e075>>min3(2,3,1)
3

fx 2021e075>>|
```