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AE 227 – Engineering Digital Computation

3/19/2023

Program 1 output to the command window:

The largest percent increase in 2009 was in month 73 at 0.427658%.

The largest percent increase in 2010 was in month 38 at 0.204894%.

The largest percent increase in 2011 was in month 39 at 0.485188%.

The largest percent increase in 2012 was in month 40 at 0.378291%.

The largest percent increase in 2013 was in month 29 at 0.407831%.

The largest percent increase in 2014 was in month 42 at 0.320969%.

The largest percent increase in 2015 was in month 43 at 0.296703%.

The largest percent increase in 2016 was in month 56 at 0.236493%.

The largest percent increase in 2017 was in month 117 at 0.264046%.

The largest percent increase in 2018 was in month 34 at 0.226222%.

The largest percent increase in 2019 was in month 47 at 0.281275%.

The largest percent increase in 2020 was in month 84 at 0.272856%.

The average monthly increase/decrease in 2009 is 0.0865637%.

The average monthly increase/decrease in 2010 is 6.15119%.

The average monthly increase/decrease in 2011 is 6.07983%.

The average monthly increase/decrease in 2012 is 6.08511%.

The average monthly increase/decrease in 2013 is 6.06705%.

The average monthly increase/decrease in 2014 is 6.07669%.

The average monthly increase/decrease in 2015 is 6.04729%.

The average monthly increase/decrease in 2016 is 6.00184%.

The average monthly increase/decrease in 2017 is 5.98117%.

The average monthly increase/decrease in 2018 is 5.95748%.

The average monthly increase/decrease in 2019 is 5.90732%.

The average monthly increase/decrease in 2020 is 5.91292%.

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Program 2 output to the command window:

Index in position 2 is invalid. Array indices must be positive integers or logical values.

Error in AssignmentSeven1 (line 36)

if a(i,j)==3 && (a(i,j)==1 || a(i-1,j)==1 || a(i-1,j-1)==1 || a(i,j-1)==1 || a(i+1,j)==1 || a(i,j+1)==1 || a(i+1,j+1)==1)

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