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| [InterviewQs](http://url4828.interviewqs.com/ls/click?upn=qwT-2Bl0U064-2B7oRNpPgUya7ecPmGRwE2khpP-2F5cNr-2FmX-2B6PqYxRHzWlRa-2B8ecgLBA9-2BqgBN6N-2BlN6LynvPDDX8gP5GJnL7P-2FdFw86KOd0IkE-3DVyLW_IX5HKWnhXeILdZHF1orS-2BlB9GK8lB7SYfPoy-2FMuH4KRohMZLpajhsnIOVcXh9Dl1-2FEM0gexeUVi2uV8saiYk-2BIoemGnh34m-2BtT-2BROOE0Lc-2Bkopd6Z27bKGuv7dOuQ73sXkNsOgMybAyt1cBiJAwdfrsAeeJh5bJa8Hot90W16qZ7R-2BtpW-2FgA186GOcU67cb64-2BXB0FymyJHS7drmfa2-2BTlA1SNMoL3D2wDpwWdLiQ4s-2F5ktp8cKF1ltZlRXaHuTpW0baFJ0cJzaUDR6HuSu1YFThMEDkFNtwyx78jpadGsy8Fd7aNfnF47rBXROb-2Bb1F3ghTJG-2Bk1zyPYBzcjvDC77tfchlfdpCV6B95KM9mJBSKlnsa7XA15A1xx62Ki7Mo) |

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| **Monotonic array** |

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| ***Python, Data Structures, Arrays*** |

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| Can you check if a given array containing n integers is [monotonic](http://url4828.interviewqs.com/ls/click?upn=qwT-2Bl0U064-2B7oRNpPgUya2MDSsqRZgJKYpdTORZxvd6Cw4mNZcevI-2Fs0I3cFDwD4N7wdyP-2FsisZNoIjplJJ-2Brw-3D-3D6bfB_IX5HKWnhXeILdZHF1orS-2BlB9GK8lB7SYfPoy-2FMuH4KRohMZLpajhsnIOVcXh9Dl1-2FEM0gexeUVi2uV8saiYk-2BIoemGnh34m-2BtT-2BROOE0Lc-2Bkopd6Z27bKGuv7dOuQ73sXkNsOgMybAyt1cBiJAwdfrsAeeJh5bJa8Hot90W16qZ7R-2BtpW-2FgA186GOcU67cb64-2BXB0FymyJHS7drmfa2-2BTlA1SNMoL3D2wDpwWdLiQ4tn9KJmV-2Bs3b8RTGpx0GzNL7tlNrf-2F6YwRGk3g850vUwu1a8e48-2BVOP7QU-2BcwDkuN1fFoBzcEoEVfEyHqYcWZBLy25hRIWDg816AihkpwFFrPK9DLdaswTAtcAfc452eS3tT-2BvV135ttlpHcVSByB53)? Your function should return "true" if it is monotonic and "false" if it's not.  An array is monotonic if it is either monotone increasing or monotone decreasing. An array A is monotone increasing if for all i <= j, A[i] <= A[j]. An array A is monotone decreasing if for all i <= j, A[i] >= A[j].  For example:    Input : [6, 5, 4, 4]    Output : true      Input : [5, 5, 5, 4]    Output : true      Input : [5, 15, 20, 10]    Output : false |