



# NumPy Problems

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- Create a null array of size 10 but the fifth value which is 1
- Reverse a above created array (first element becomes last)
- Create a 3x3 matrix with values ranging from 0 to 8
- Find indices of non-zero elements from [1,2,0,0,4,0]
- Create a 3x3x3 array with random values
- Create a 10x10 array with random values and find the minimum and maximum values
- Create a random vector of size 30 and find the mean value
- Create a 2d array with 1 on the border and 0 inside
- Consider a (6,7,8) shape array, what is the index (x,y,z) of the 100th element
- Multiply a 5x3 matrix by a 3x2 matrix (real matrix product)
- Extract the integer part of a random array
- Create a 5x5 matrix with row values ranging from 0 to 4
- Create a random vector of size 10 and sort it
- Consider two random array A and B, check if they are equal

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- How to tell if a given 2D array has null columns?
- Considering a four dimensions array, how to get sum over the last two axis at once?
- Consider an array of dimension (5,5,3), how to multiply it by an array with dimensions (5,5)?
- Extract all the contiguous 3x3 blocks from a random 10x10 matrix
- How to compute averages using a sliding window over an array?
- Consider a 16x16 array, how to get the block-sum (block size is 4x4)?