## MCQ Questions

* Which of the following is the memory location of (i, j)th element in a matrix of size nxm located at memory location 0 and size of each element is c.
  + n\*x + j\*y
  + i\*x + j\*y
  + (i\*m + j)\*c (CORRECT)
  + i + j
* What is the output of Array.fill(2, 1, 3) for the given array: [1, 2, 3, 4, 5, 6]
  + [1, 2, 3, 4, 5, 6]
  + [1, 2, 2, 4, 5, 6] (CORRECT)
  + [1, 2, 2, 2, 5, 6]
  + None of the above
* What is the space complexity of an inplace operation on a matrix of size NxM.
  + O(N\*M)
  + O(N^3)
  + O(N + M)
  + O(1) (CORRECT)
* Determine the time complexity of the below code?

| for(var i = 0; i < n; i++) {  for(var j = 0; j < m; j++) {  if(j == m-1)  break;  }  if(i < n)  break;  } |
| --- |

* O(n\*m)
* O(1)
* O(m) (CORRECT)
* O(n)
* What is the result of calling Array.pop() on an empty array?
* undefined (CORRECT)
* null
* No output
* None of the above