Our solution represents the array as an STL vector v for convenience, and this solution works for vectors of any size, not just 52. For i running from the index of the last element of v down to 1, a random integer r ranging from 0 to i is generated. The ith element of v is swapped with the rth element. The function rand() returns a random integer, and we function use the fact that rand()%(i+1) generates a random number between 0 and i.