Companies:

FAANG

10UP

VMware

Tejas Network

Datadog

Appwrite

Elastic

Multidocs

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<https://youtu.be/diAaFFuS12g?si=iOA6Z-lihK2TvsA9>

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<https://github.com/hxu296/leetcode-company-wise-problems-2022/>

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1. Is selection sort a stable algo or unstable?

2. Order preserve

3. In place sort

<https://www.geeksforgeeks.org/top-mcqs-on-bubblesort-algorithm-with-answers/>

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error: unreachable statement example: some code after break

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Bubble Sort: Round 1 = 1st largest element will place in right most/left most position

bubbleSort(int[] arr, int n) {

        boolean isSorted = false;

        for(int i=1; i<n; i++){

            for(int j=0; j<n-i; j++){

                int tmp=0;

                if(arr[j] > arr[j+1]){

                    arr[j]=arr[j]^arr[j+1];

                    arr[j+1]=arr[j]^arr[j+1];

                    arr[j]=arr[j]^arr[j+1];

                    isSorted=true;

                }

            }

            if(isSorted==false)

                break;

        }

    }

-------------------------------------------------

selectionSort(int arr[], int n) {

        for(int i=0; i<n-1; i++){

            int minIndex = i;

            int tmp = 0;

            for(int j=i+1; j<n; j++){

                if(arr[minIndex] > arr[j])

                    minIndex = j;

            }

            tmp = arr[minIndex];

            arr[minIndex] = arr[i];

            arr[i] = tmp;

        }

    }

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insertionSort(int n , int[] arr) {

        for(int i=1; i<n; i++){

            int j=i-1;

            int tmp=arr[i];

            while(j>=0){

                if(tmp<arr[j]){

                    arr[j+1]=arr[j];

                }

                else{

                    break;

                }

                j--;

            }

            arr[j+1]=tmp;

        }

    }

x%n = [ 0 to (x-1)]

(n+x)%n = x

m%n = m (here m<n)